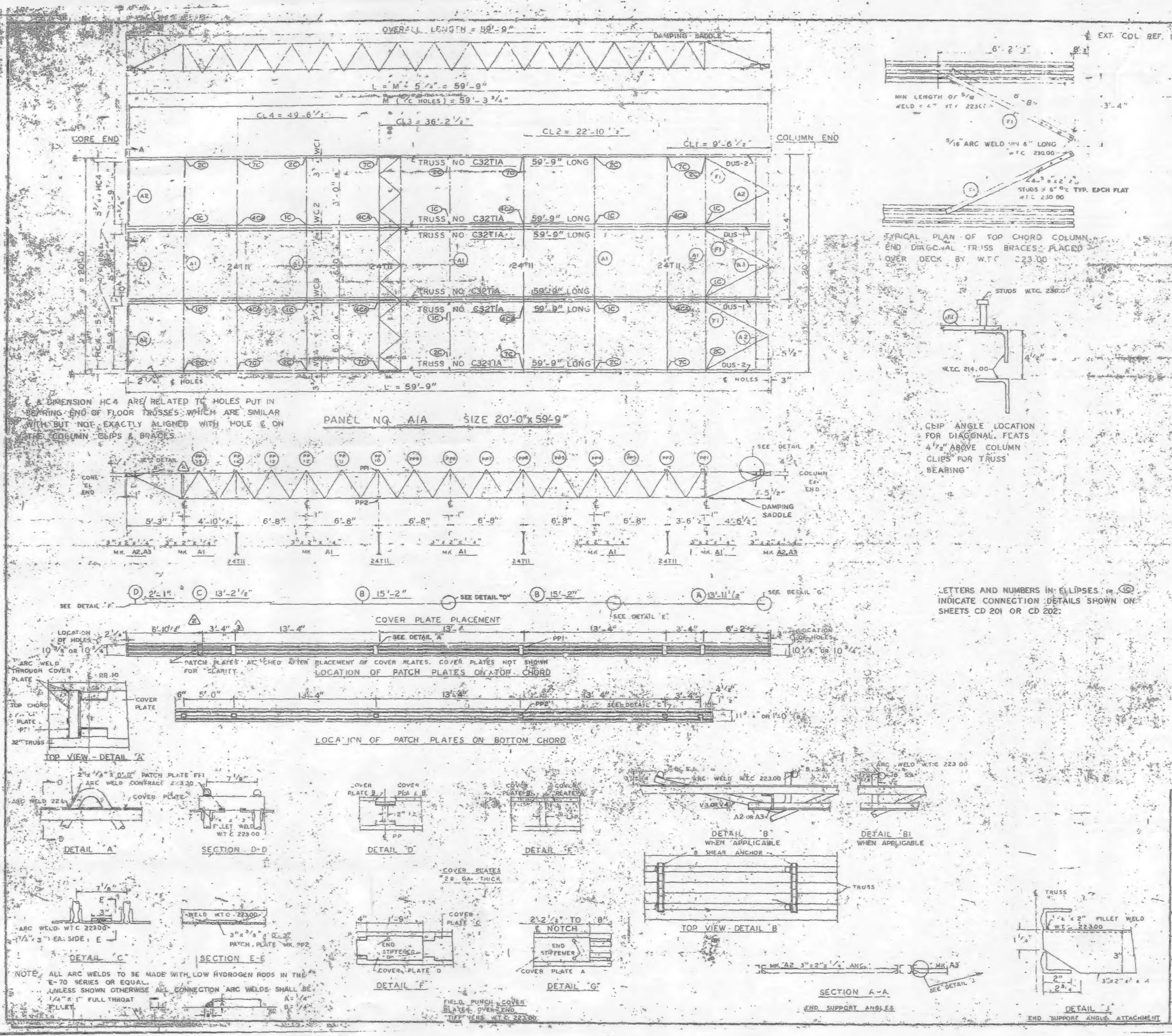

OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = M + 5 1/4" = 59'-9"
M (℄ HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1A 59'-9" LONG
24T11
DUS-1
DUS-2
HC4
WC1
WC2
WC3
20'-0"
L = 59'-9"
℄ HOLES
PANEL NO A1A SIZE 20'-0" x 59'-9"
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
5'-3"
4'-10 1/2"
6'-8"
3'-6 1/2"
4'-6 1/2"
3"x2"x1/4" MK A2,A3
3"x2"x1/4" MK A1
COVER PLATE PLACEMENT
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
2'-1"
13'-2 1/2"
15'-2"
13'-11 1/2"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
6'-2 1/2"
3'-4"
13'-4"
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
WHEN APPLICABLE
DETAIL "B1"
WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 20 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
EXT. COL. REF. LINE
5/16" ARC WELD 4" x 6" LONG W.T.C 230.00
STUDS W.T.C 230.00
W.T.C. 214.00
3"x3/8"x 0'-3" PATCH PLATE MK PP2
ARC WELD W.T.C 22300 (1/4" x 3") EA. SIDE
#8 SHEAR ANCHOR
TRUSS

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES IE. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-[illegible]	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	[illegible]"Ø x [illegible]-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
4	5-13-69	AS NOTED	G.D.C.
3	3-11-69	AS NOTED	G.D.C.
2	2-17-69	AS NOTED	G.D.C.
1	7-12-68	GENERAL	T.M.C.

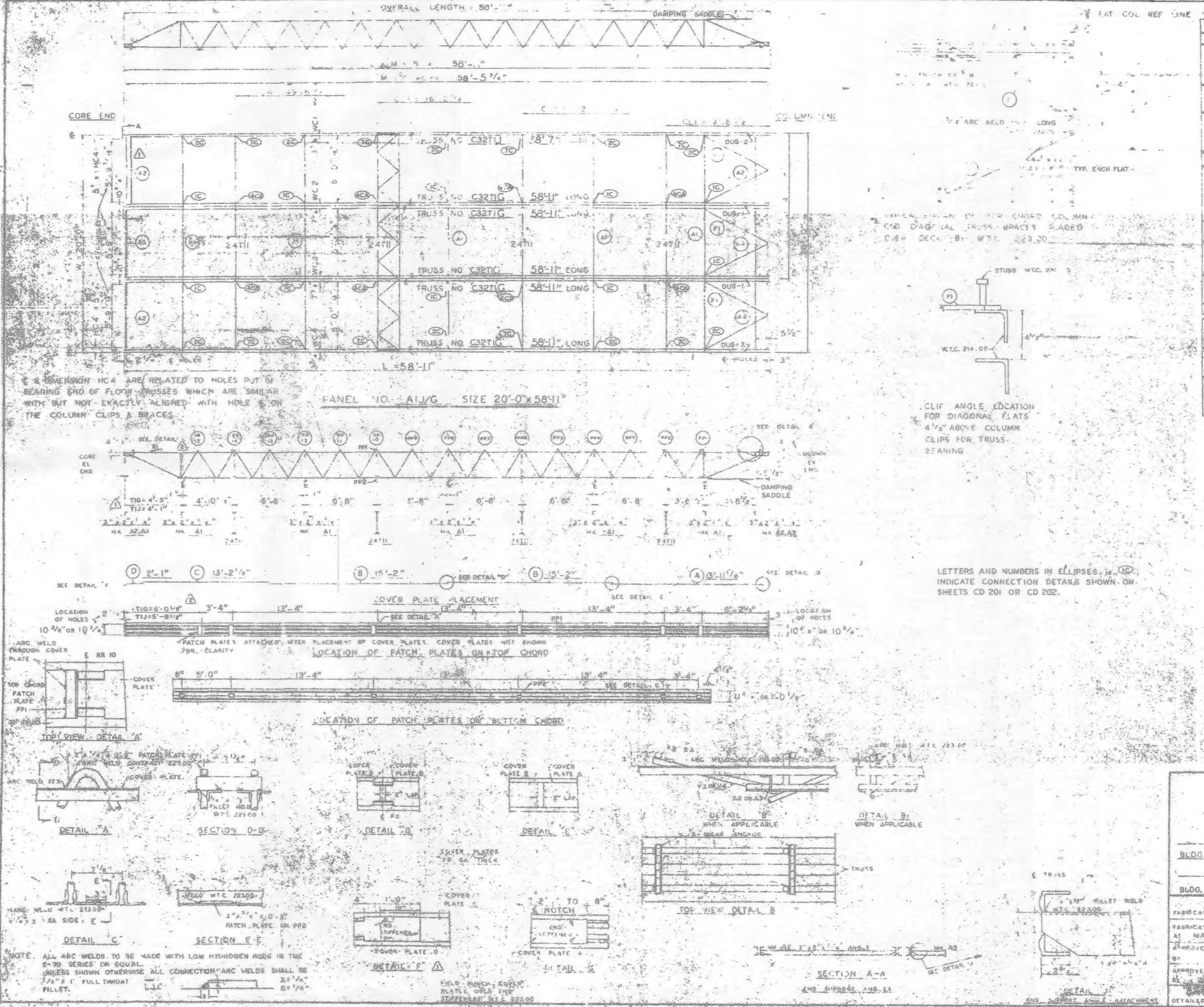
REF. DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
4	SA-124	1-6-68
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68, 69 (NORTH) PANEL A1A 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 4

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White, for P.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C 221	SHEET NO. FP A1A


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
58'-5 3/4"
CORE END
COLUMN END
TRUSS NO. C32TIJ 58'-7"
TRUSS NO. C32TIG 58'-11" LONG
TRUSS NO. C32TIG 58'-11" LONG
TRUSS NO. C32TIG 58'-11" LONG
TRUSS NO. C32TIG 58'-11" LONG
TRUSS NO. C32TIG 58'-11" LONG
24TII
DUS-2
DUS-1
L = 58'-11"
€ HOLES
PANEL NO. AIJ/G SIZE 20'-0" x 58'-11"
SEE DETAIL B1
CORE EL END
PP1
PP2
DAMPING SADDLE
TIG = 4'-5"
TIJ = 4'-1"
4'-10"
5'-8"
6'-8"
3'x2"x1/4"
MK A2,A3
MK A1
24TII
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
TIG = 6'-0 1/4"
TIJ = 5'-8 1/2"
3'-4"
13'-4"
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK (B) W.T.C. 223.00
STUDS W.T.C. 223
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "B"
DETAIL "E"
DETAIL "B"
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
DETAIL "C"
SECTION E-E
3"x3/8"x0'-3" PATCH PLATE MK PP2
COVER PLATES 22 GA THICK
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG	1	C32TIG - 58'-11"	ST201G
	TIJ	1	C32TIJ - 58'-7"	ST201J
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	ST211
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	12	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS1/2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 5/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-8"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.L.

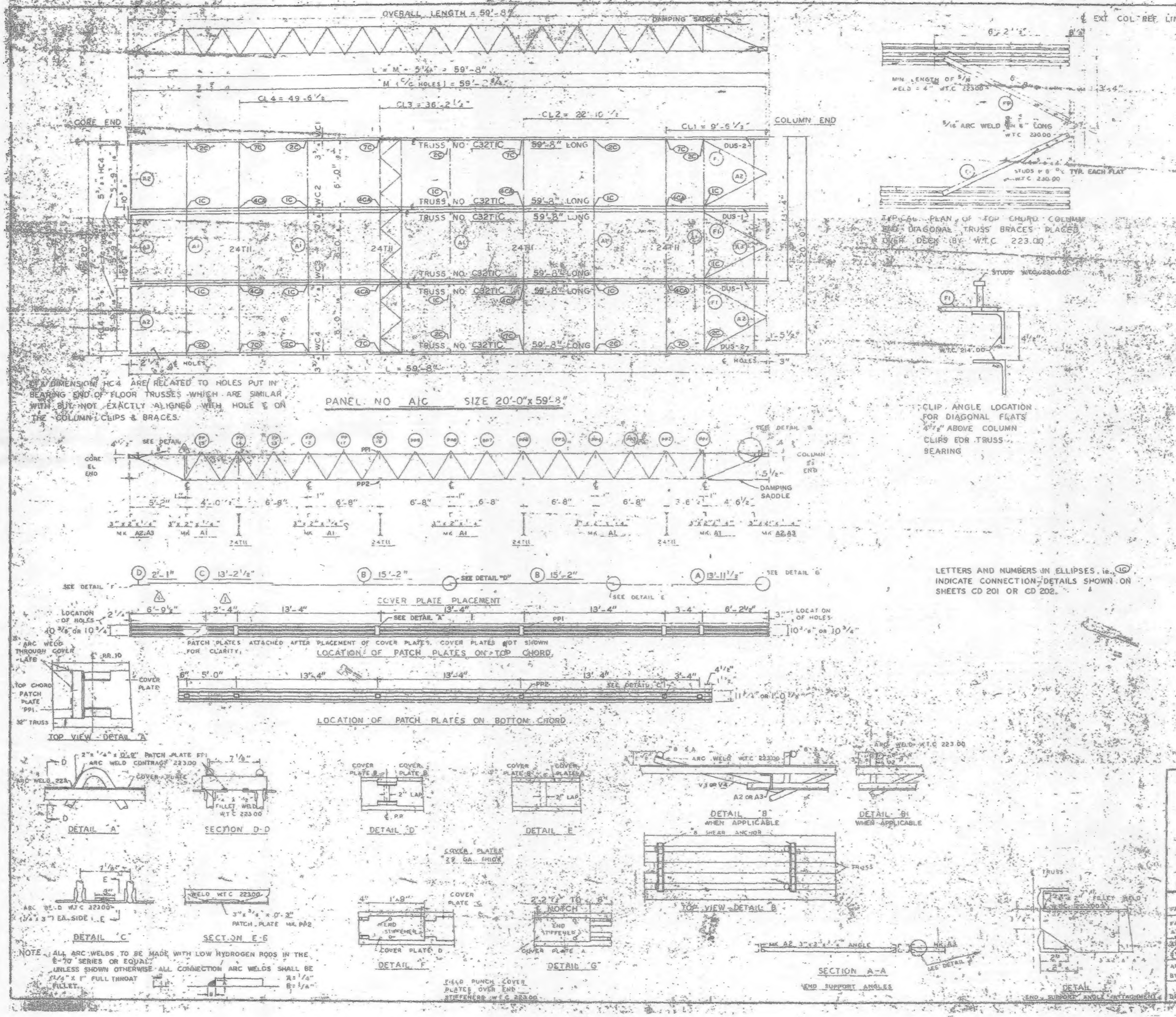
REF. DRWG.	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
2 SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-5	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40 (N)
BLDG. B FLOORS 40 (WEST) 2

FABRICATION BY PACIFIC STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. [illegible]	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE FEB. 24 1966	
APPROVED FOR FABRICATION BY	DATE	CHECKED BY T. CHURA DATE OCT. 1968	IN CHARGE OF
DETAILED BY A. L. WEBER		FABRICATION CONT. NO. W.T.C. 221	DRAWING NO. [illegible] A1J/G


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
L = "M" - 5¼" = 59'-8"
M (C/C HOLES) = 59'-2¾"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
CORE END
COLUMN END
TRUSS NO. C32T1C 59'-8" LONG
24T11
WC1
WC2
WC3
WC4
HC4
DUS-1
DUS-2
2¼" ℄ HOLES
℄ HOLES
L = 59'-8"
PANEL NO A1C SIZE 20'-0"x59'-8"
℄ EXT. COL. REF. LINE
MIN. LENGTH OF 5/16 WELD = 4" W.T.C 223.00
5/16 ARC WELD 4" 6" LONG W.T.C 230.00
STUDS @ 8" O.C. TYP. EACH FLAT W.T.C 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
CORE EL END
SEE DETAIL B
COLUMN END
DAMPING SADDLE
5'-2" 4'-0" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6" 4'-6½"
3"x2"x¼" MK A2,A3
3"x2"x¼" MK A1
24T11
COVER PLATE PLACEMENT
D 2'-1" C 13'-2½" B 15'-2" B 15'-2" A 13'-11½"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL F
SEE DETAIL G
LOCATION OF HOLES
6'-9½" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2½"
10 3/8 OR 10 3/4
SEE DETAIL "A"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4"
PP2
SEE DETAIL "C"
11¼" OR 1'-0⅞"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2"x¼"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
ARC WELD 223
COVER PLATE
DETAIL "A"
7½"
FILLET WELD W.T.C 223.00
SECTION D-D
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 29 GA. THICK
#8 S.A.
ARC WELD W.T.C 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
7½"
E
3"
ARC WELD W.T.C 22300
(¼"x3") EA. SIDE ℄ E
DETAIL "C"
WELD W.T.C 22300
3"x⅜"x0'-3" PATCH PLATE MK PP2
SECTION E-E
4" 1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
2'-2½" TO 8" NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
MK A2 3"x2"x¼" ANGLE
MK A3
SECTION A-A
END SUPPORT ANGLES
FILLET WELD
TRUSS
DETAIL
END SUPPORT ANGLE ATTACHMENT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET. A = ¼" B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T1A - 59'-8"	ST201C
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x19'-11"	ST403
	A2	4	3"x2"x¼"x5'-11 9/16"	ST403
	A3	2	3"x2"x¼"x5'-11¾"	ST403
DIAGONAL FLATS	F1	6	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST400
	PP2	24	3"x⅜"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST400
CONNECTION PLATES	P1	10	3½"x⅜"x6½"	ST400
	P2	8	4½"x.39"x0'-9"	ST400
	P3	8	4½"x.39"x1'-0"	ST400

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY
[illegible]	[illegible]	[illegible]	[illegible]
1	5-27-69	AS NOTED	R.J.L.

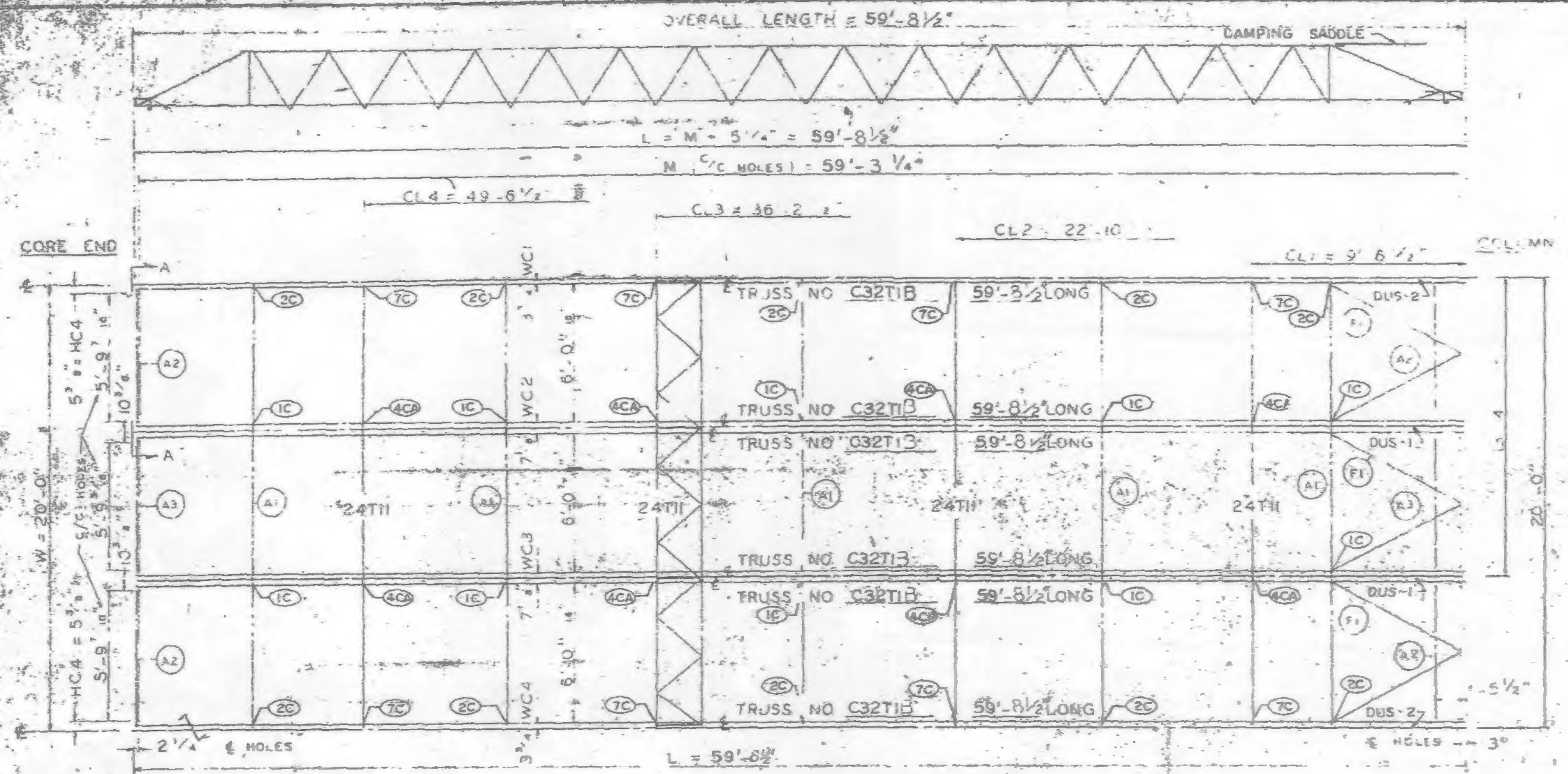
⚠ REF. DRWG
7-AB4-3 10-15-68
7-AB4-5 & 16 7-22-68
7-AB4-41 7-22-68
SA-124 1-6-69
7-AB3-2 1-13-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL [illegible] 0" X 59'-[illegible]
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) ⚠

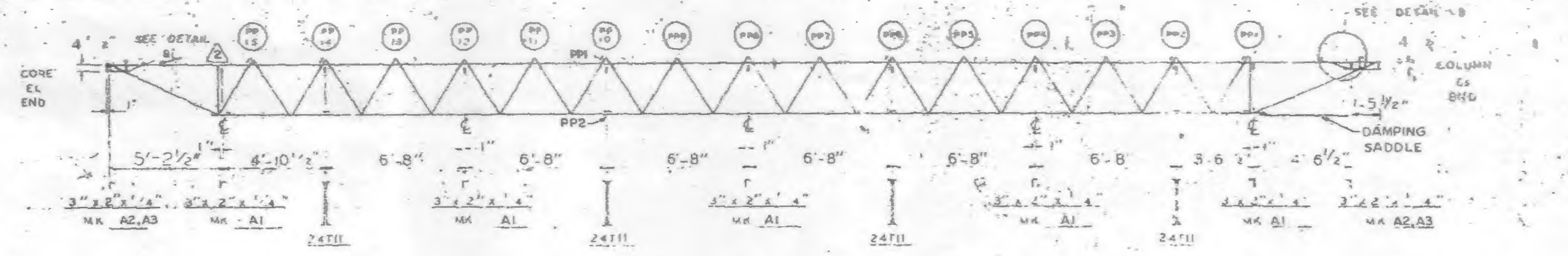
FABRICATION BY LACLEDE STEEL COMPANY

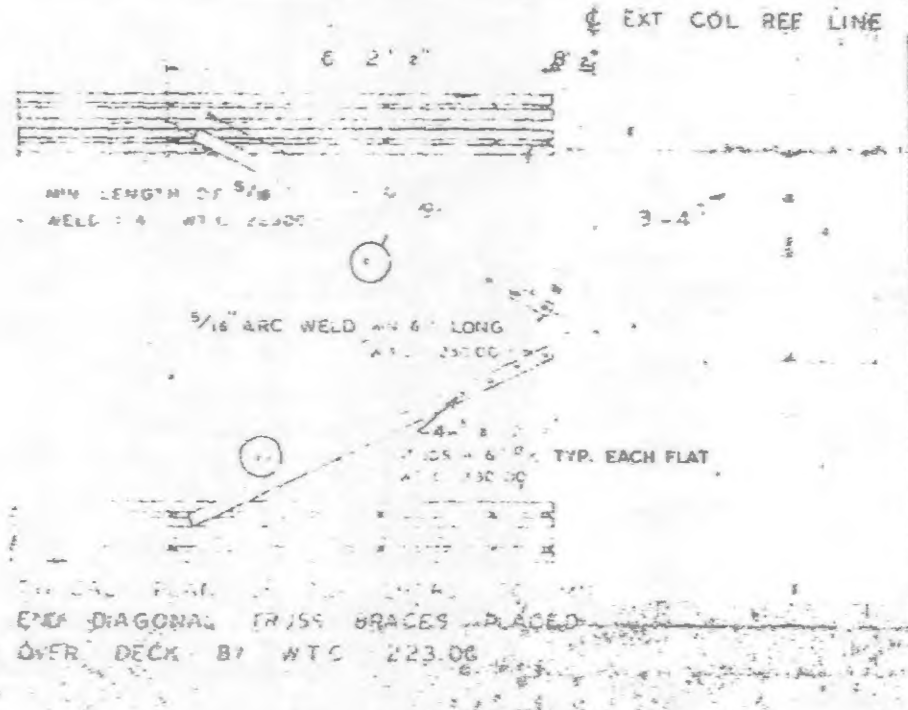
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James W. [illegible] P.O. of N.Y.A.	DATE 1/9/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP A1C


OVERALL LENGTH = 59'-8½"
DAMPING SADDLE
L = M - 5¼" = 59'-8½"
M (C/C HOLES) = 59'-3¼"
CL4 = 49'-6½"
CL3 = 36'-2"
CL2 = 22'-10"
CL1 = 9'-6½"
CORE END
COLUMN END
TRUSS NO C32T1B 59'-8½" LONG
TRUSS NO C32T13 59'-8½" LONG
24T11
DUS-2
DUS-1
HC4
WC1
WC2
WC3
WC4
W = 20'-0"
20'-0"
2¼ ℄ HOLES
L = 59'-8½"
℄ HOLES 3"

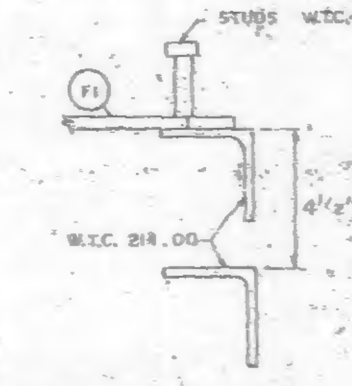
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO A1B SIZE 20'-0" x 59'-8½"


SEE DETAIL B1
CORE ℄ END
PP1
PP2
COLUMN ℄ END
DAMPING SADDLE
SEE DETAIL B
5'-2½"
4'-10½"
6'-8"
MK A2, A3
MK A1
24T11


℄ EXT COL REF LINE
3-4"
5/16 ARC WELD 4 x 6 LONG
TYP. EACH FLAT

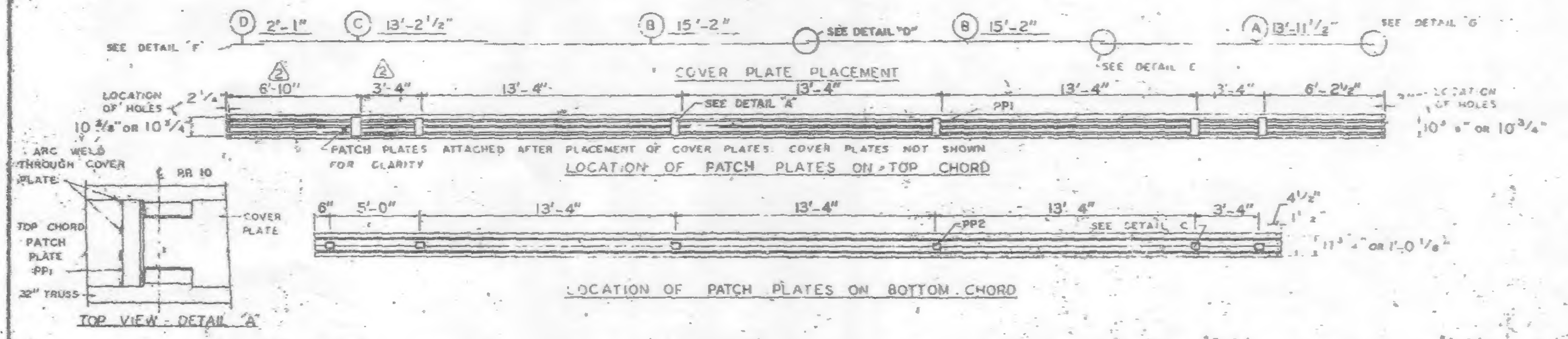
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.06


STUDS W.T.C. 230.00
F1
4½"
W.T.C. 218.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

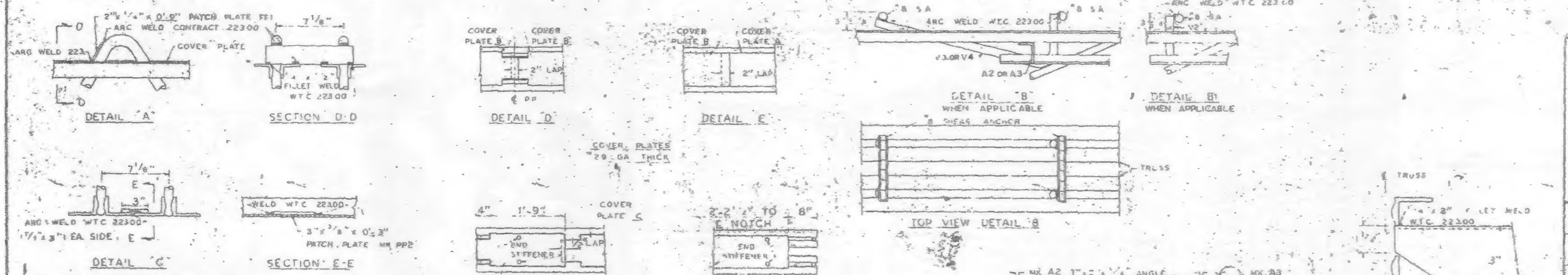
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	6	C32T1 - 59'-8½"	ST201B
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3 x 2 x ¼ ANGLE	A1	5	3" x 2" x ¼" x 19'-11"	ST 403
	A2	4	3" x 2" x ¼" x 5'-11 9/16	ST403
	A3	2	3" x 2" x ¼" x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x ¼" x 0'-9"	ST 400
	PP2	24	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11½"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2½"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS 1	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS 2	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1⅜ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST 400
	P2	8	4½" x .30" x 0'-9"	ST 400
	P3	8	4½" x .30" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.


SEE DETAIL F
D 2'-1"
C 13'-2½"
B 15'-2"
SEE DETAIL D
B 15'-2"
SEE DETAIL C
A 13'-11½"
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES
6'-10"
3'-4"
13'-4"
SEE DETAIL A
PP1
6'-2½"
LOCATION OF HOLES
10⅜" or 10¾"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL A
6"
5'-0"
PP2
SEE DETAIL C
4½"
LOCATION OF PATCH PLATES ON BOTTOM CHORD

NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	11-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

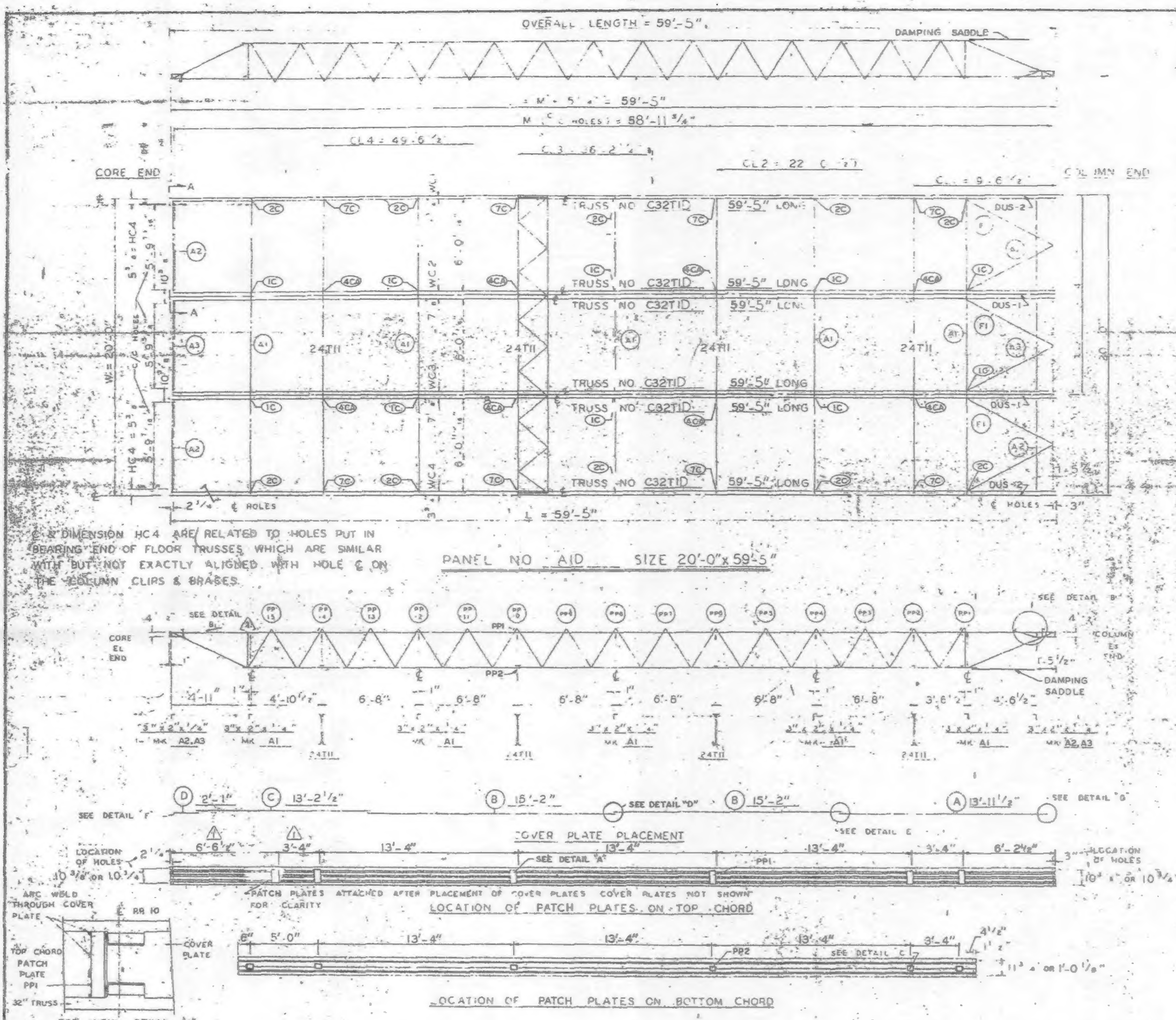

2" x ¼" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
ARC WELD 223
COVER PLATE
DETAIL "A"
7⅛"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
DETAIL "E"
COVER PLATES 29 GA THICK
#8 SA
ARC WELD W.T.C. 22300
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
#8 SHEAR ANCHOR
TOP VIEW DETAIL B
TRUSS
ARC WELD W.T.C. 22300
DETAIL B1 WHEN APPLICABLE
7⅛"
3"
ARC WELD W.T.C. 22300
1¼" x 3" EA. SIDE
DETAIL "G"
WELD W.T.C. 22300
3" x ⅜" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
4"
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2" TO 8"
E NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3" x 2" x ¼" ANGLE
SECTION A-A
END SUPPORT ANGLES
SEE DETAIL J
TRUSS
FILLET WELD W.T.C. 22300
3"
2"
DETAIL J
END SUPPORT ANGLE ATTACHMENT

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

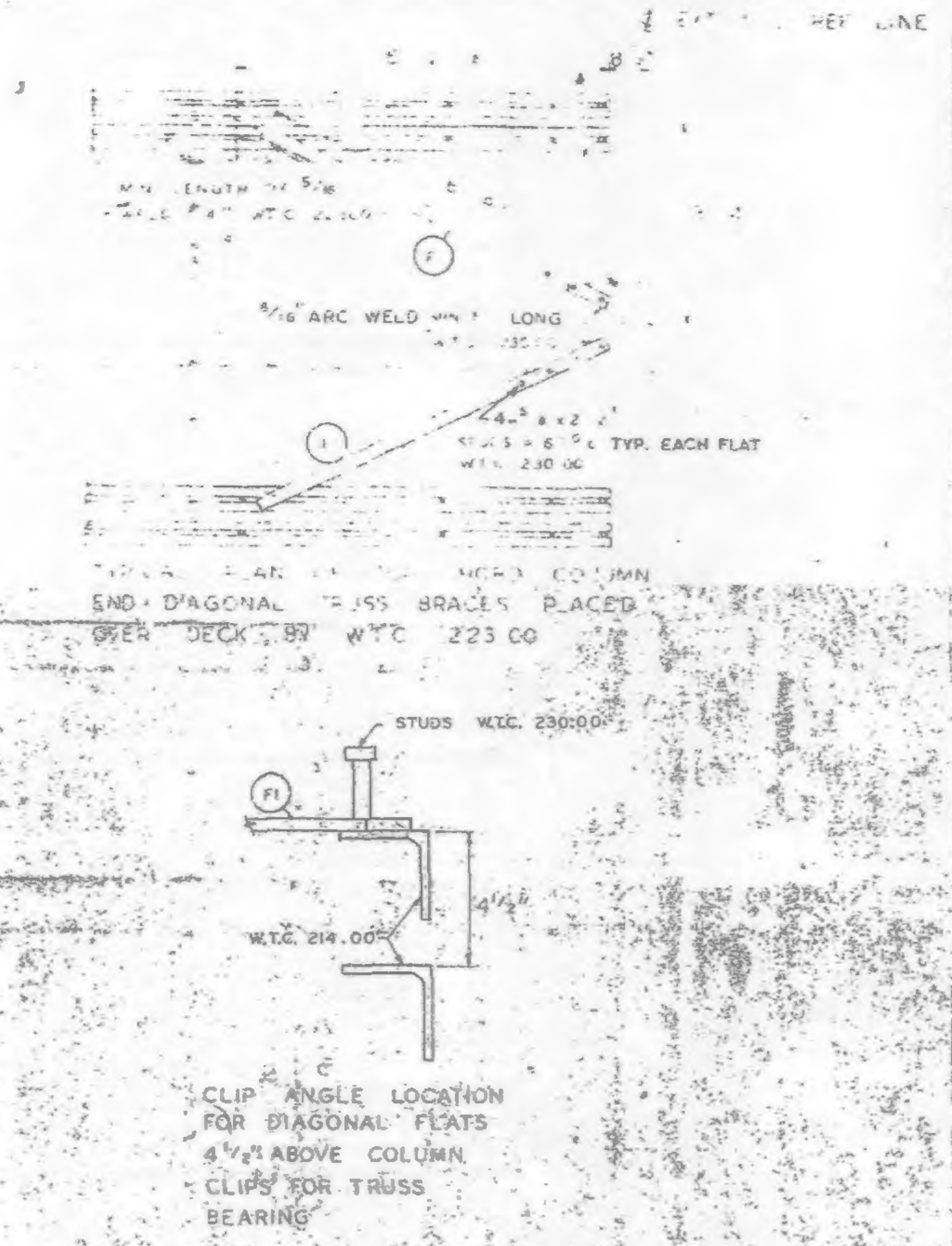
BLDG A FLOORS 83-91, 93-106 (NORTH) 1
PANEL A1B ≤ 9" x 59'-8½"
BLDG. B FLOORS 83-91, 93-106 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY I. CHURA DATE OCT. 1, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP A1B


OVERALL LENGTH = 59'-5"
DAMPING SADDLE
59'-5"
58'-11 3/4"
CL4 = 49'-6 1/2"
CL2 = 22'-0 1/2"
CORE END
COLUMN END
TRUSS NO C32TID 59'-5" LONG
24T11
DUS-2
DUS-1
2C
7C
1C
4CA
A1
A2
A3
F1
WC2
WC3
WC4
HC4
W = 20'-0"
2 1/4" ℄ HOLES
L = 59'-5"
℄ HOLES 3"
SEE DETAIL B
CORE EL END
COLUMN END
PP1
PP2
DAMPING SADDLE
4'-11"
4'-10 1/2"
6'-8"
3'-6 1/2"
4'-6 1/2"
MK A2, A3
MK A1
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "G"
SEE DETAIL "F"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
6'-6 1/2"
3'-4"
13'-4"
6'-2 1/2"
SEE DETAIL "A"
10 3/8" or 10 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
SEE DETAIL C
11 3/4" or 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO AID SIZE 20'-0" x 59'-5"


℄ REF LINE
5/16" ARC WELD LONG
4-5/8 x 2 1/2" STUDS @ 6" ℄ TYP. EACH FLAT W.T.C. 230.00
TYPICAL PLAN COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
F1
4 1/2"
W.T.C. 214.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

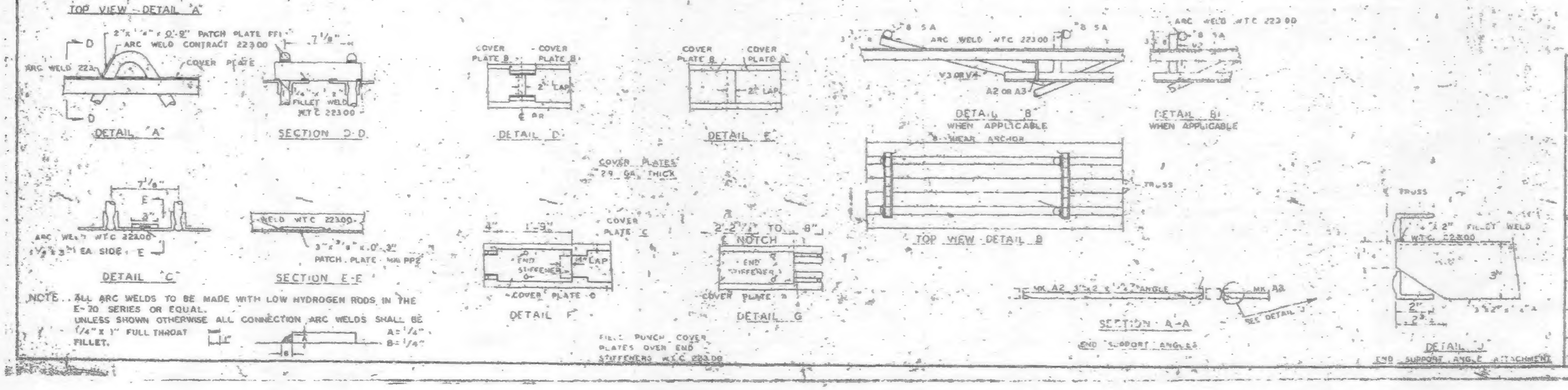
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TID	6	C32TID - 59'-3"	ST201D
BRIDGING TRUSSES	[illegible]	4	24T11 - 19'-11"	B1211
ANGLE	A1	5	3"x2"x1/4" x 19'-11"	ST 403
	A2	4	3"x2"x1/4" x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
B. SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ø x 1'-3"	ST 403
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	RJF

REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68


ARC WELD THROUGH COVER PLATE
RR 10
COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223
DETAIL "A"
7 1/8"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
COVER PLATES 29 GA. THICK
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE SHEAR ANCHOR
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
ARC WELD WTC 22300
1/2" x 3" EA. SIDE
DETAIL "C"
WELD WTC 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
4"
1'-9"
COVER PLATE C
END STIFFENER
2" LAP
COVER PLATE D
DETAIL F
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE B
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x2"x1/4" ANGLE
MK A2
SEE DETAIL J
SECTION A-A
END SUPPORT ANGLES
1/4" 2" FILLET WELD W.T.C. 223.00
3"
2"
3"x2"x1/4"
DETAIL J
END SUPPORT ANGLE ATTACHMENT

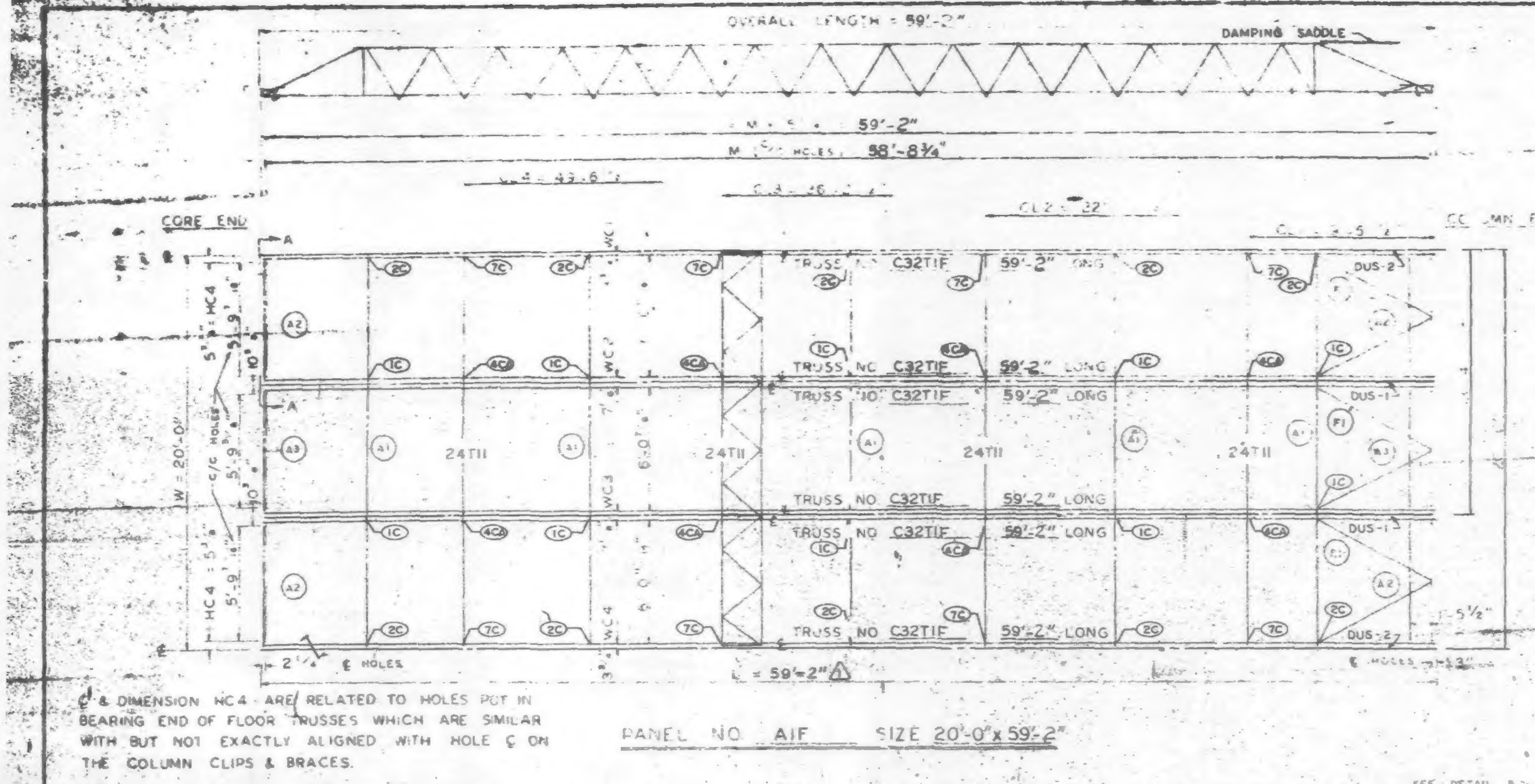
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL AID ℄ 59'-5"
BLDG. B FLOORS 81-82 (WEST) 1

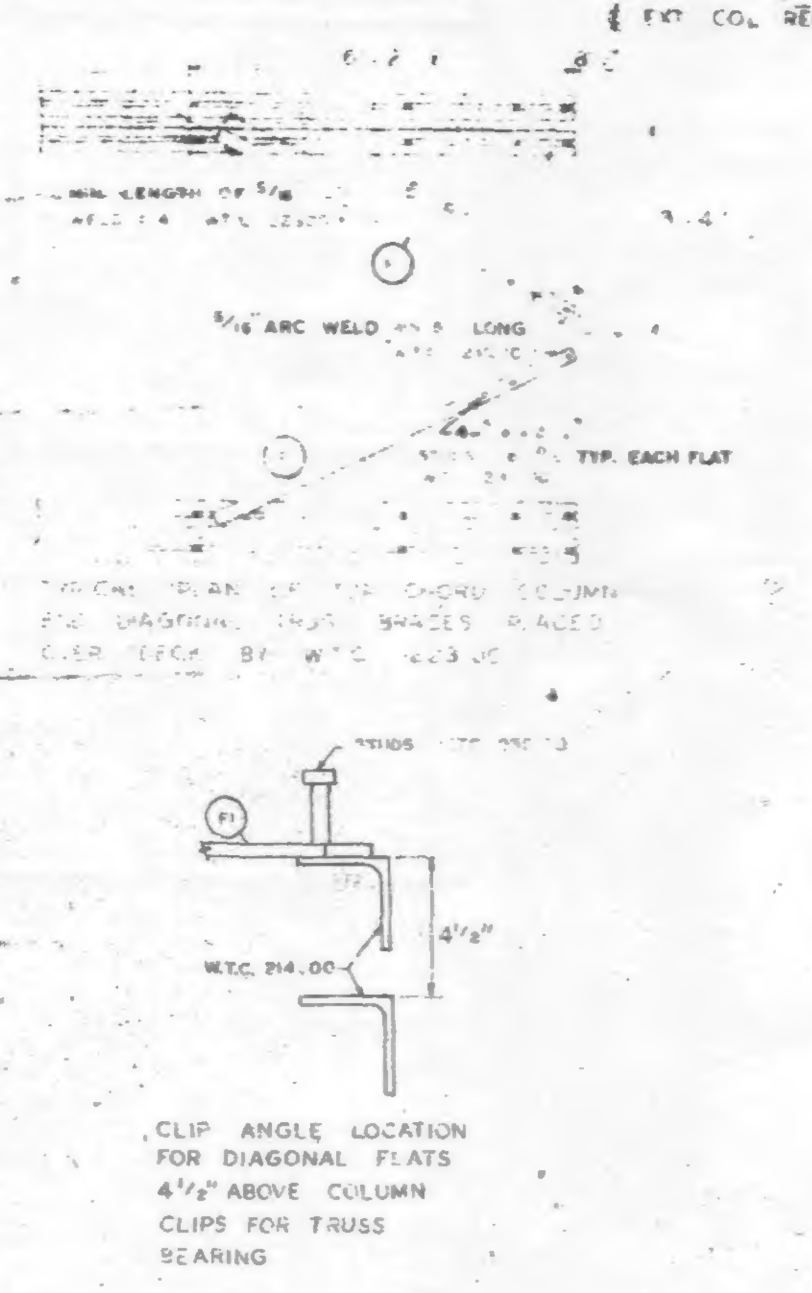
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 PLATE	
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHIBA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED		FABRICATION CONT. NO. WTC 221	SHEET NO. FP AID

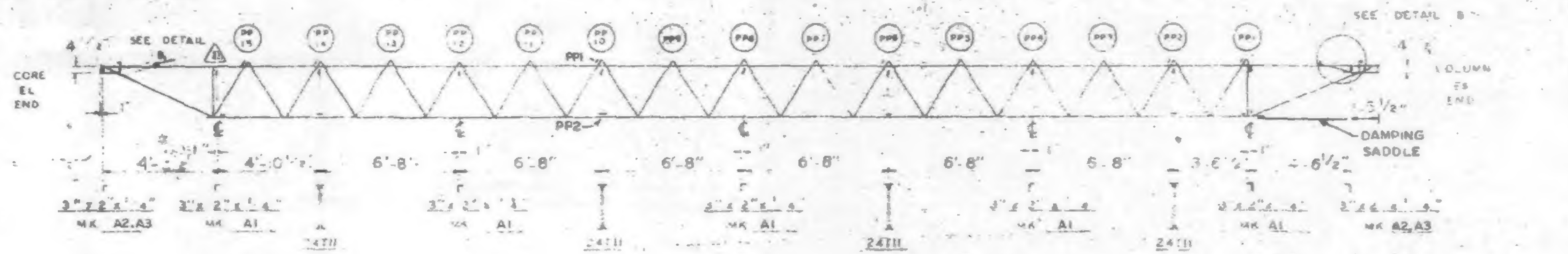

OVERALL LENGTH = 59'-2"
DAMPING SADDLE
59'-2"
58'-8 3/4"
CORE END
COLUMN END
TRUSS NO C32TIF 59'-2" LONG
24TII
DUS-2
DUS-1
W = 20'-0"
HC4
WC3
WC4
L = 59'-2"
℄ HOLES
2C
7C
1C
4CA
A1
A2
A3
F1

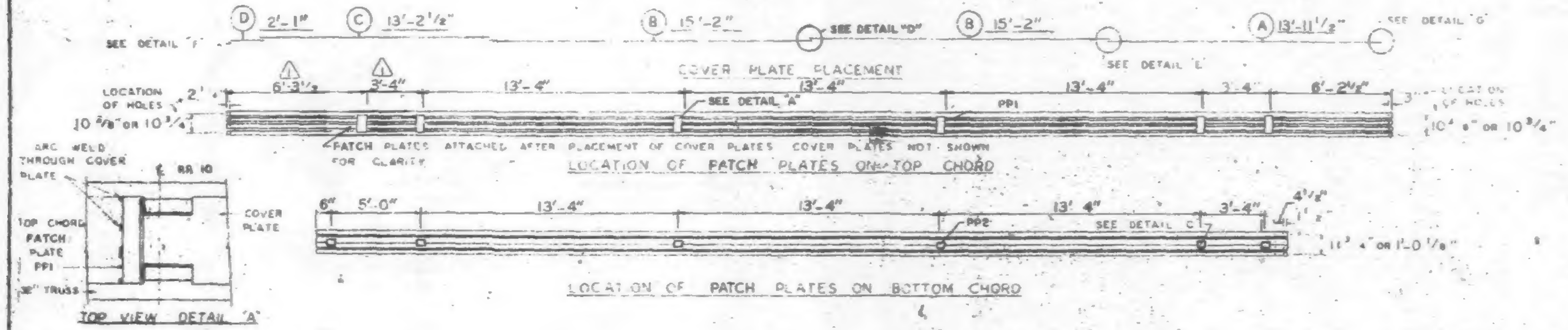
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

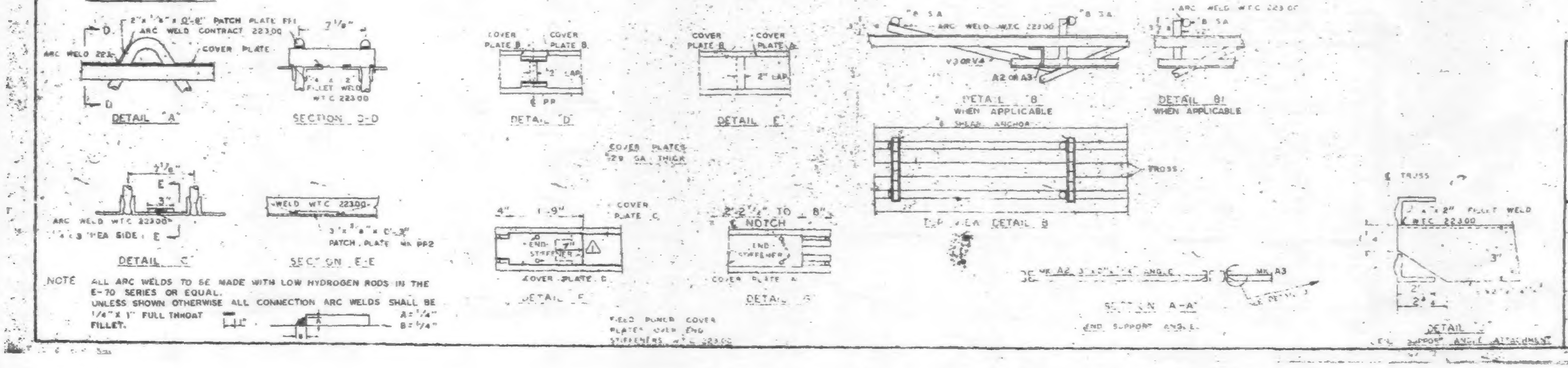
PANEL NO AIF SIZE 20'-0" x 59'-2"


℄ EXT. COL. REF. LINE
5/16 ARC WELD
TYP. EACH FLAT
STUDS
W.T.C. 214.00
4 1/2"
F1

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING


SEE DETAIL
SEE DETAIL B
CORE EL END
COLUMN EL END
PP1
PP2
DAMPING SADDLE
4'-0 1/2"
6'-8"
3'-6 1/2"
4'-6 1/2"
MK A2,A3
MK A1
24TII


D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 5/8" OR 10 3/4"
6'-3 1/2"
3'-4"
13'-4"
6'-2 1/4"
SEE DETAIL "A"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
PP2
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD


ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
COVER PLATE
TRUSS
TOP VIEW DETAIL "A"
2"x 1/4"x 0'-8" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
ARC WELD 223
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
2" LAP
PP
DETAIL "D"
COVER PLATE A
DETAIL "E"
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B1" WHEN APPLICABLE
TRUSS
TOP VIEW DETAIL B
ARC WELD W.T.C. 223.00
DETAIL "C"
WELD W.T.C. 223.00
3"x 3/8"x 0'-3" PATCH PLATE MK PP2
SECTION E-E
COVER PLATES 28 GA. THICK
END STIFFENER
COVER PLATE C
DETAIL "F"
NOTCH
DETAIL "G"
WELD INNER COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2
MK A3
SECTION A-A
END SUPPORT ANGLE
FILLET WELD W.T.C. 223.00
DETAIL
END SUPPORT ANGLE ATTACHMENT

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

LETTERS AND NUMBERS IN ELLIPSES, i.e. ①C, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

REQUIRED MATERIAL FP PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIF	6	C32TIF - 59'-2"	ST201F
BRIDGING TRUSSES	TII	4	24TII 19'-11"	[illegible]
[illegible] ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5-11 3/16"	ST 403
	A3	2	3"x2"x1/4"x5-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

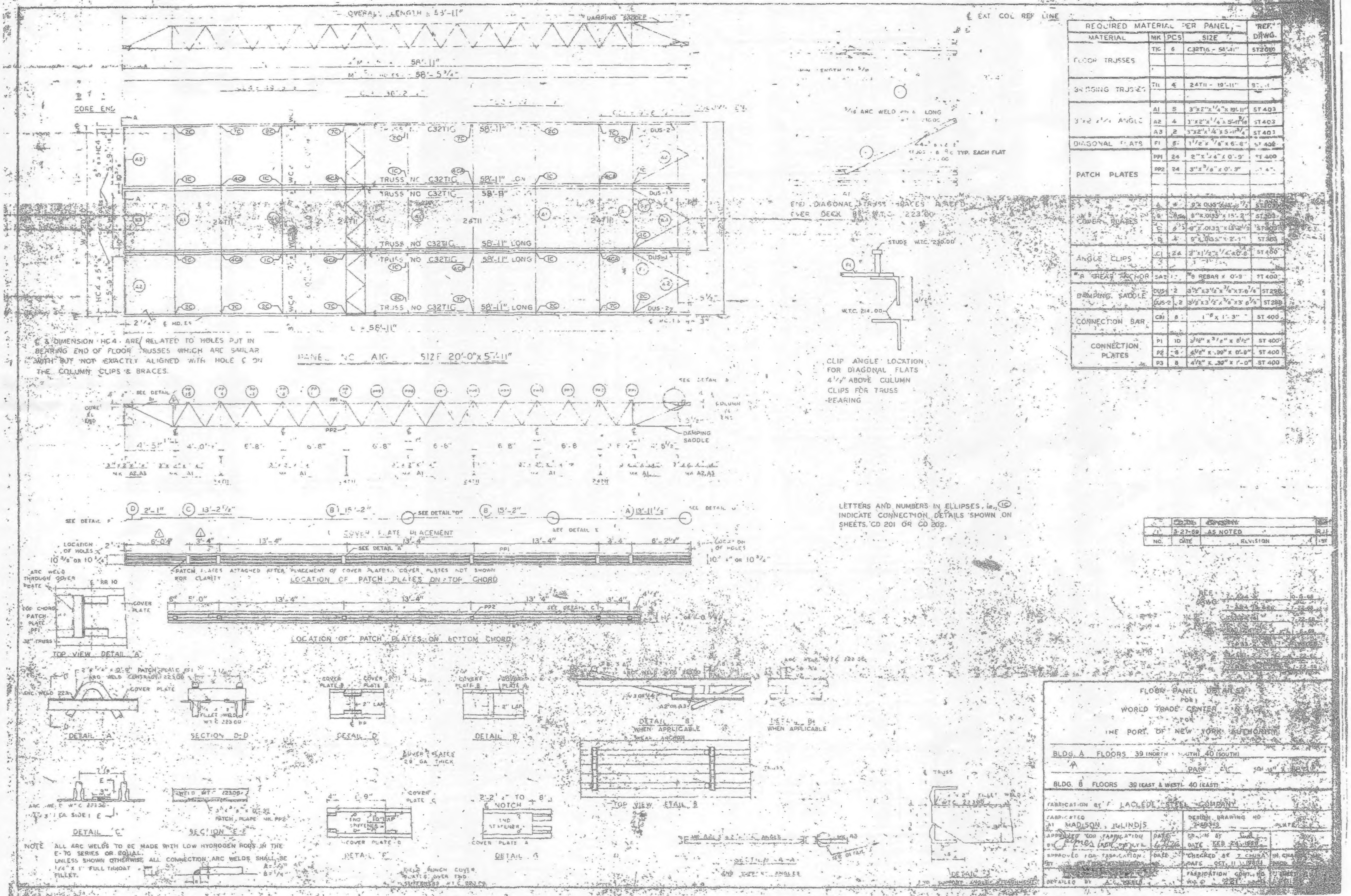
NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	RJP

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4 41 7-22-68
⚠ SA 124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48 [illegible] 70-71(N)
PANEL AIF 20'-0" x 59'-2"
BLDG B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7 AB3-3	PLATE
APPROVED FOR FABRICATION BY James White	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11 1968	IN CHARGE OF PROD. DEV.
[redacted] DETAILED BY A C WEBER		FABRICATION CONT. NO WT. 221	SHEET NO FP AIF


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
58'-11"
58'-5 3/4"
CORE END
TRUSS NO. C32T1G 58'-11" LONG
TRUSS NO. C32T1G 58'-8"
24T11
DUS-1
DUS-2
HC4
W.C.4
℄ EXT. COL. REF. LINE
5/16 ARC WELD ... LONG
STUDS @ ... TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
END DIAGONAL TRUSS BRACES A1... OVER DECK B1 W.T.C. 223.00
L = 58'-11"
PANEL NO. A1G SIZE 20'-0" x 58'-11"
SEE DETAIL
PP1
PP2
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
4'-5" 4'-0" 6'-8" 6'-8" 6'-8" 6'-6" 6'-8" 6'-8"
MK A2,A3
MK A1
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 1/4"
6'-0" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
TOP VIEW DETAIL "A"
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "B"
COVER PLATES 20 GA. THICK
DETAIL "B"
WHEN APPLICABLE
SHEAR ANCHOR
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
PATCH PLATE MK. PP2
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2" TO 8'
℄ NOTCH
COVER PLATE A
DETAIL "G"
FIELD BENCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
TRUSS
2" FILLET WELD W.T.C. 223.00
DETAIL "E"
END SUPPORT ANGLE ATTACHMENT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	6	C32T1G - 58'-11"	ST2016
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	[illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	8	1 1/2"x 1/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	[illegible]
COVER PLATES	A	8	9"x .0135"x 13'-11 1/2"	ST 303
	B	8	9"x .0135"x 15'-2"	ST 303
	C	4	9"x .0135"x 13'-2 1/2"	ST 303
	D	4	9"x .0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x 1 1/2"x 1/4"x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-3"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	8	1"Φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 8 1/2"	ST 400
	P2	8	4 1/2"x .30"x 0'-8"	ST 400
	P3	8	4 1/2"x .30"x 1'-0"	ST 400

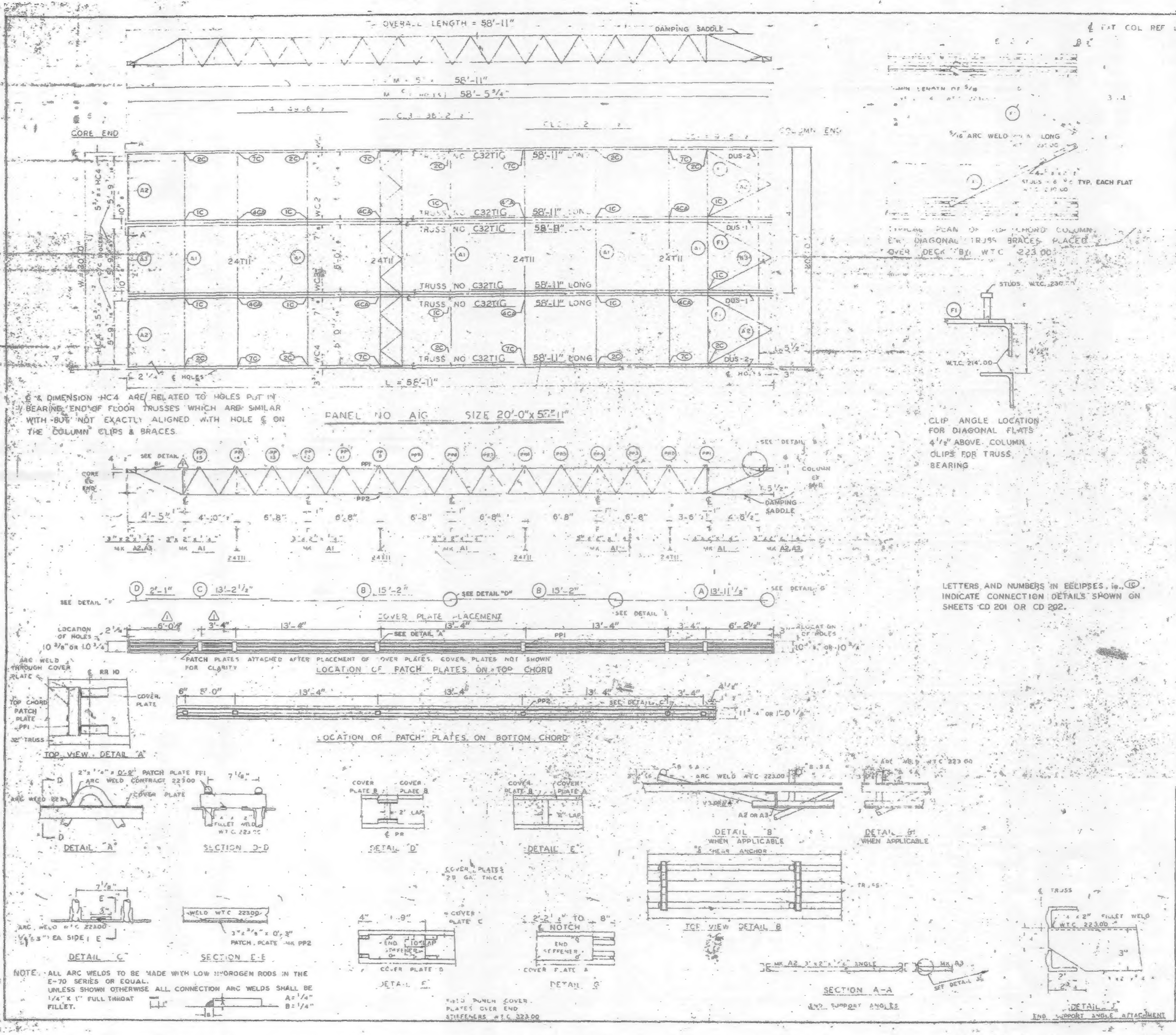
NO.	DATE	REVISION	
1	5-27-69	AS NOTED	RJL

REF. DWG.	
7-AB4 ...	10-5-68
7-AB4 ...	[illegible]
[illegible]	[illegible]
SA 124 ...	1-6-69
7-AB3-2	[illegible]
7-ABL-22	7-22-68
7-AB2 ...	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39 (NORTH & SOUTH) 40 (SOUTH)
PANEL A1G 20'-0" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
APPROVED FOR FABRICATION BY James Lock
DATE 4-7-76
DRAWN BY
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY
DATE
CHECKED BY T. CHURA
DATE OCT. 11, 1968
IN CHARGE
DETAILED BY A. E. WEBER
FABRICATION CONT. NO. 221


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
58'-11"
58'-5 3/4"
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIG 58'-8"
24TII
DUS-1
DUS-2
PANEL NO AIG SIZE 20'-0"x 58'-11"
L = 58'-11"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "G" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
5/16" ARC WELD
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG	6	C32TI6 - 58'-11"	ST2016
BRIDGING TRUSSES	TII	4	24T11 9'-11"	B121I
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 9'-0"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-[illegible] 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST 303
	B	8	9"x.0135"x 15'-2"	ST 303
	C	4	9"x.0135"x 13'-2 1/2"	ST 303
	D	4	9"x.0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	R.J.P.

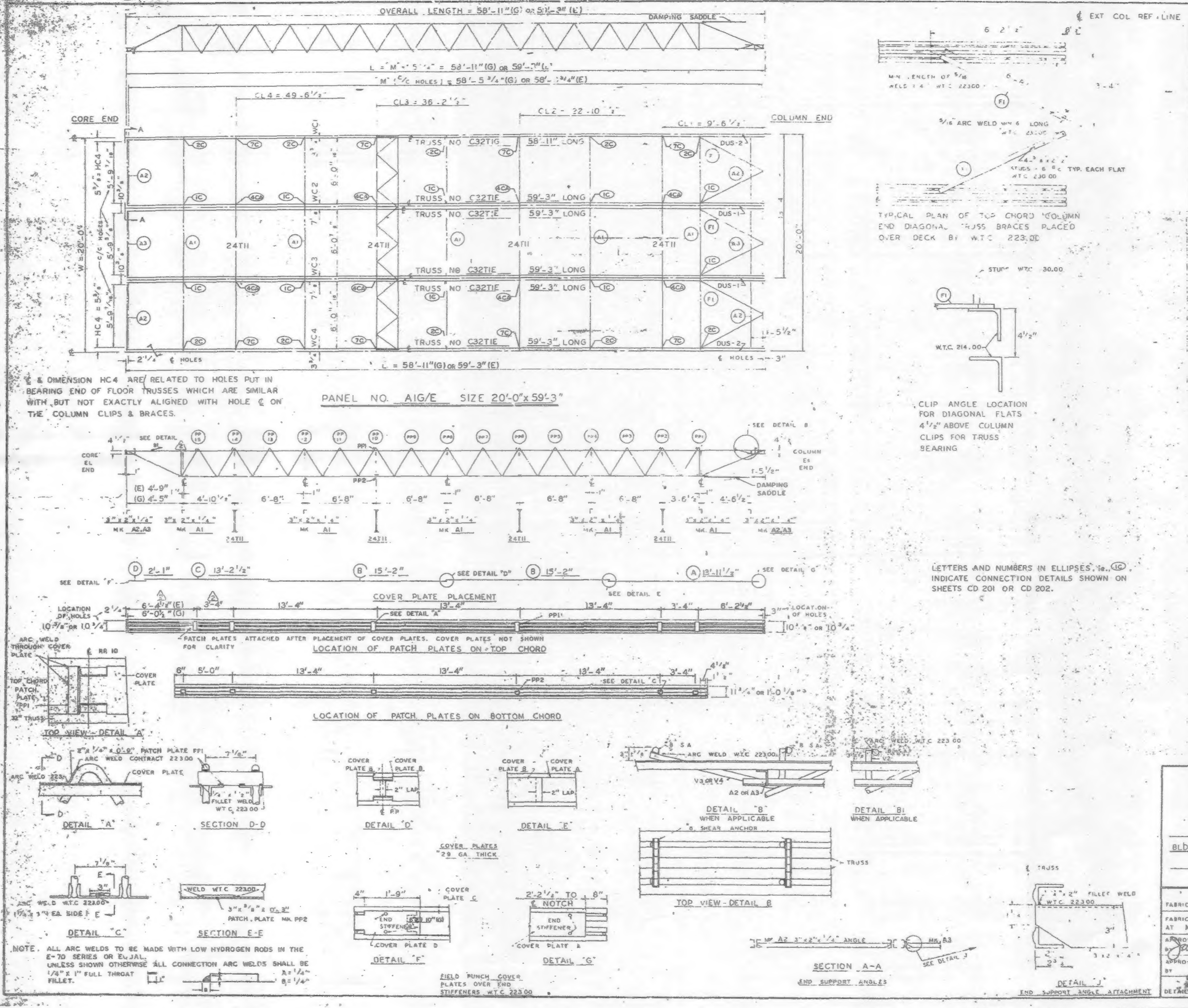
REF. DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 39 (NORTH & SOUTH) 40 (SOUTH)
PANEL AIG 20'-0" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-403-3	PLATE
APPROVED FOR FABRICATION BY James Whitten Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP AIG


OVERALL LENGTH = 58'-11" (G) or 59'-3" (E)
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIE 59'-3" LONG
24TII
DUS-1
DUS-2
L = 58'-11" (G) or 59'-3" (E)
℄ HOLES
PANEL NO. AIG/E SIZE 20'-0" x 59'-3"
COLUMN ℄ END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 29 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
℄ EXT COL REF. LINE

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST201E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSS	TII	4	24TII - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 9'-11"	ST 403
	A2	4	3"x2"x1/4"x 5-11 5/8"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	8	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 6 1/2"	ST 400
	P2	8	4 1/2"x .39"x 0'-9"	ST 400
	P3	8	4 1/2"x .39"x 1'-0"	ST 400

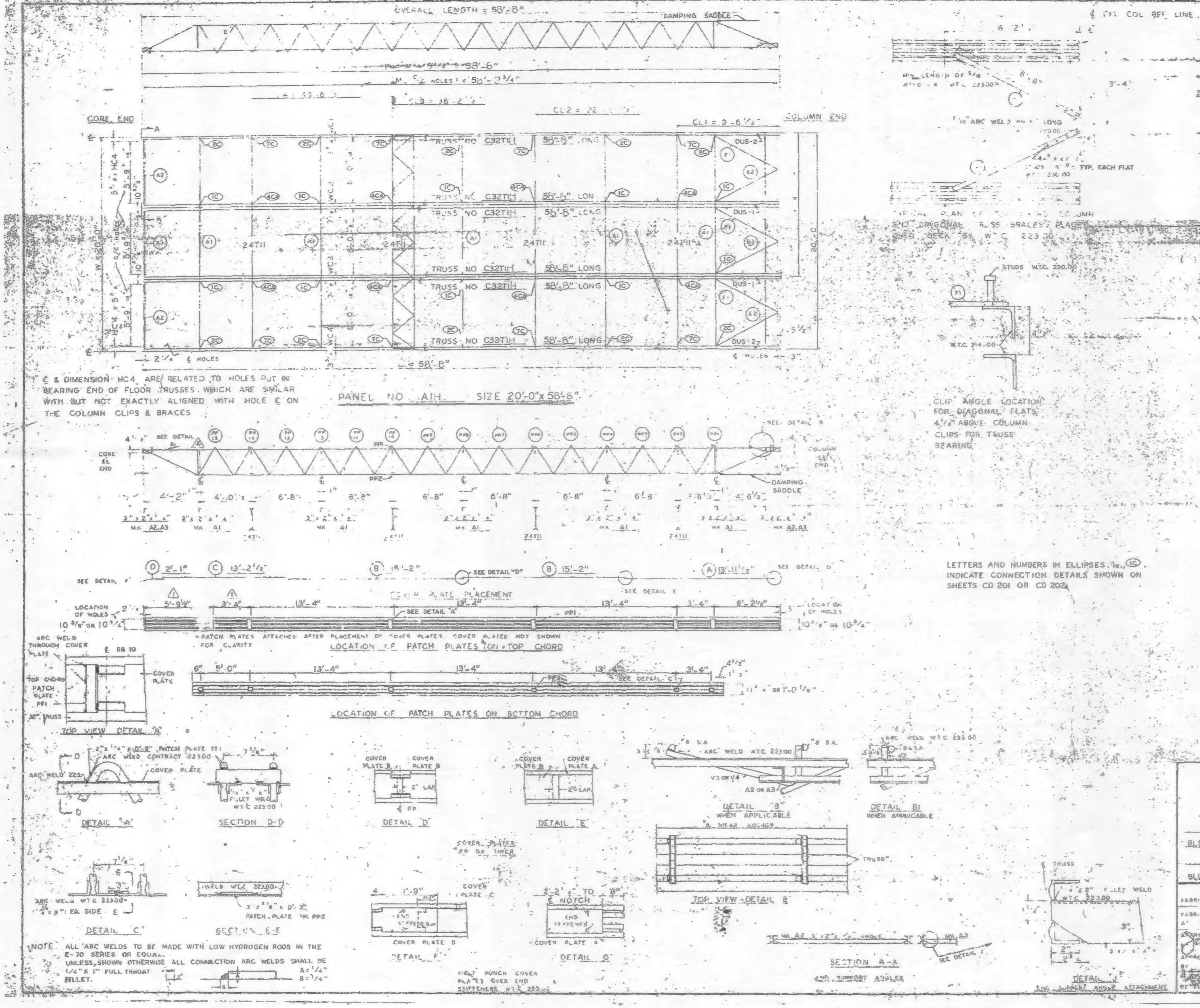
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P
1	7-12-68	GENERAL	T.M.C.

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-66
SA-124	1-6-69
7-AB3-2	1-3-68
2 7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)
PANEL 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-4	PLATE
APPROVED FOR FABRICATION BY James White PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY R.G. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP AIG/E



OVERALL LENGTH = 58'-8"
DAMPING SADDLE
58'-8"
℄ COL REF LINE
CORE END
COLUMN END
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-6" LONG
24T11
DUS-2
DUS-1
HC4
WC4
PANEL NO A1H SIZE 20'-0" x 58'-8"
CORE EL END
SEE DETAIL B
DAMPING SADDLE
4'-2" 4'-0½" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6½" 4'-6½"
MK A2,A3
MK A1
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL F
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "A"
SEE DETAIL "C"
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL J END SUPPORT ANGLE ATTACHMENT
COVER PLATES 20 GA. THICK
TYPICAL PLAN OF DIAGONAL FLATS AT COLUMN
STUDS W.T.C. 230.00
W.T.C. 214.00
ARC WELD W.T.C. 22300
3"x ⅜" x 0'-3" PATCH PLATE MK PP2

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - [illegible]	
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	[illegible]
3 x 2 x ¼ ANGLE	A1	5	3"x2"x¼" x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x 5'-1¾"	ST 403
DIAGONAL FLATS	F1	6	1½" x ⅝" x [illegible]-8	ST 402
PATCH PLATES	PP1	24	2" x ¼" x 0'-3"	ST 400
	PP2	24	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST303
	B	8	9"x 0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 8½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	

REF DRWG

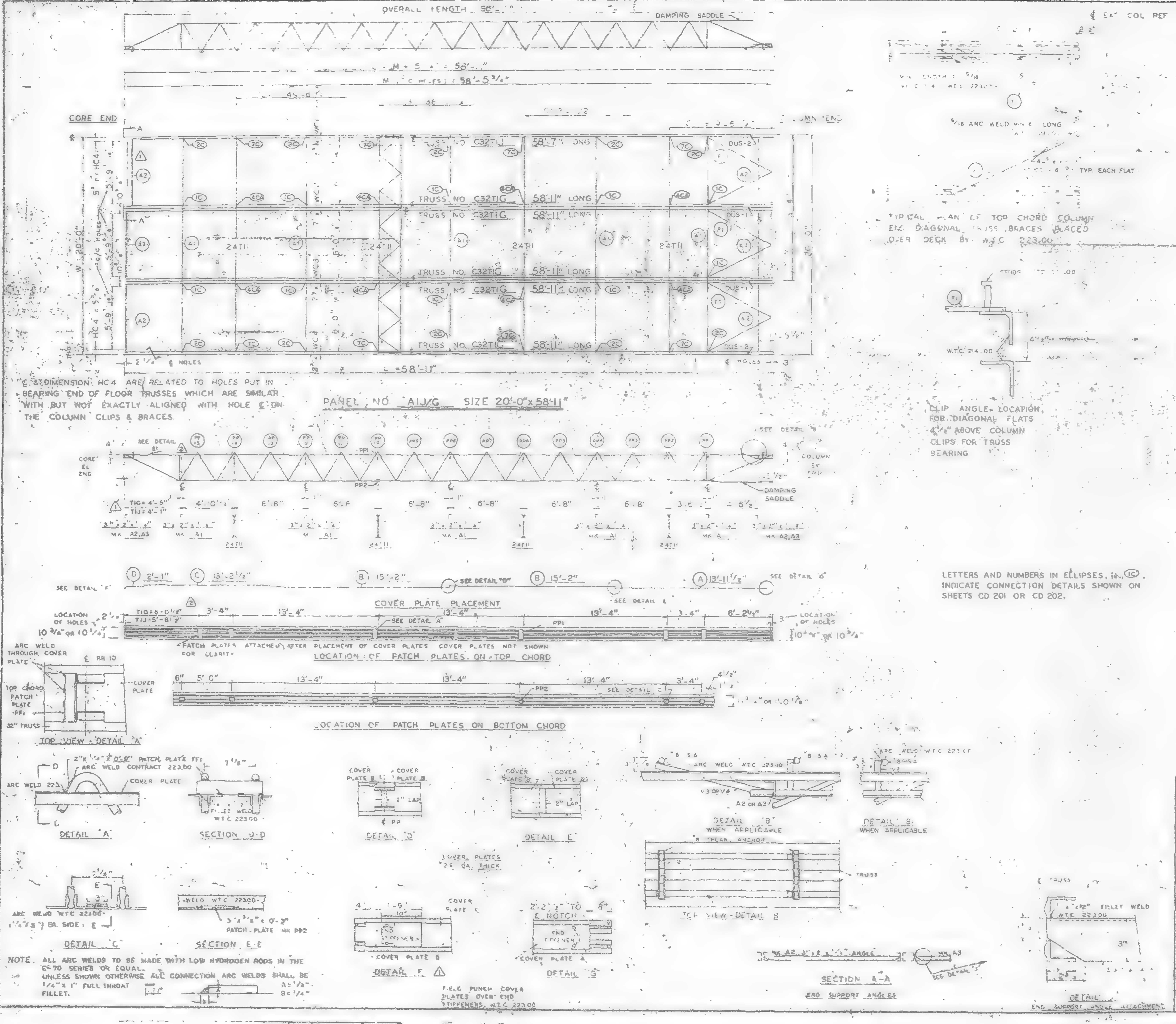
7-A84-3	10-15-68
7-A84-15 & 16	7-22-68
7-A84-41	7-22-68
SA 124	1-6-69
7-A83-2	1-3-68
7-A81-2	7-22-68
7-A82-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 79-80 (N)
PANEL A1H [illegible]-0" X 58'-8"
BLDG. B FLOORS 79 & 80 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-3	PLATE
APPROVED FOR FABRICATION James White	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DIV.
DETAILED BY S C WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET FP A[illegible]


OVERALL LENGTH 58'-[illegible]"
DAMPING SADDLE
M[illegible]C HOLES = 58'-5¾"
CORE END
COLUMN END
TRUSS NO. C32TIJ 58'-7" LONG
TRUSS NO. C32TIG 58'-11" LONG
24TII
DUS-2
DUS-1
L = 58'-11"
¢ HOLES
PANEL NO. A1J/G SIZE 20'-0" x 58'-11"
CORE EL END
SEE DETAIL B1
PP1
PP2
DAMPING SADDLE
COLUMN END
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL "A"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
DETAIL - END SUPPORT ANGLE ATTACHMENT
TYPICAL PLAN OF TOP CHORD COLUMN EX. DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
5/16 ARC WELD W.T.C. LONG
W.T.C. 214.00
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
COVER PLATE B
2" LAP
COVER PLATES 26 GA. THICK
E.O.C. PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
ARC WELD W.T.C. 22300 (¼" x 3") EA. SIDE
WELD W.T.C. 22300
3"x⅜"x0'-3" PATCH PLATE MK PP2
FILLET WELD W.T.C. 22300

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

*PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ⅛"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	TIG	[illegible]	C32TIG - 58'-11"	ST[illegible]
	TIJ	1	C32TIJ - 58'-7"	[illegible]
[illegible] TRUSSES	TII	4	24" [illegible]	[illegible]
[illegible] ANGLE	A1	5	3 x [illegible]	[illegible]403
	A2	4	3 x 2 x [illegible]	[illegible]403
	A3	2	3 x 2 x [illegible]	[illegible]
DIAGONAL FLATS	C	5	[illegible]	[illegible]02
PATCH PLATES	PP1	24	[illegible]	[illegible]
	PP2	24	3" x ⅜" x 0'-3"	[illegible]
COVER PLATES	A	4	9" x .0135" x 13'-11½"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2½"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	[illegible]	2" x 1½" x ¼" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400

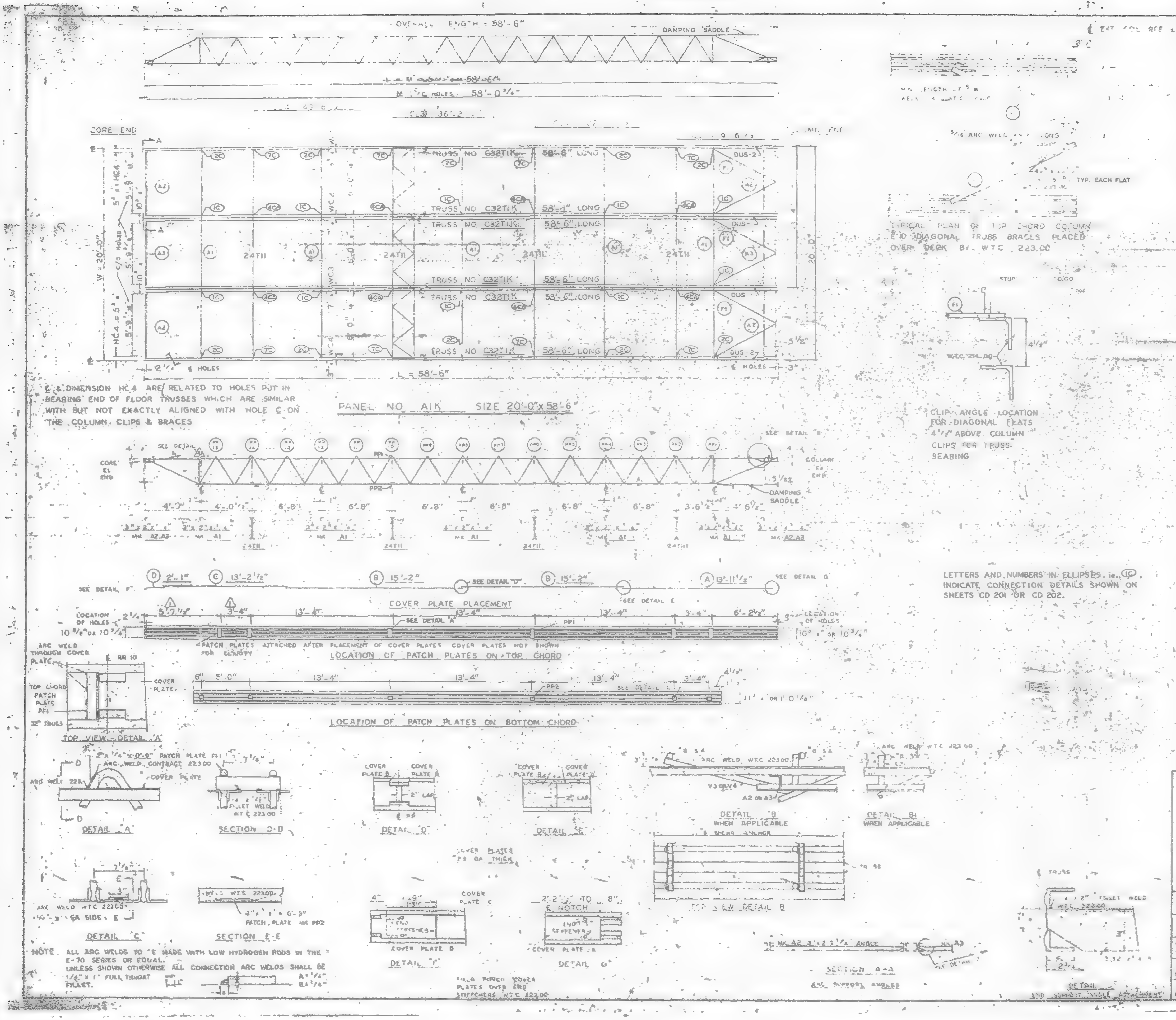
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA 124	1-8-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-5	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40 (N)
20'-0" x 58'-11"
BLDG. B FLOORS 40 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.
DATE 1/2/70
DRAWN BY [illegible]
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [illegible]
DATE
CHECKED BY T. CHURA
DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP A1J/G


OVERALL LENGTH = 58'-6"
DAMPING SADDLE
CORE END
TRUSS NO C32T1K 58'-6" LONG
24T11
DUS-2
DUS-1
L = 58'-6"
¢ HOLES
PANEL NO A1K SIZE 20'-0"x58'-6"
SEE DETAIL
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
4'-0" 4'-0" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6"
D 2'-1" C 13'-2 1/2" B 15'-2" B 15'-2" A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
ARC WELD WTC 22300
SECTION E-E
WELD WTC 22300
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
COVER PLATES 22 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
SECTION A-A
END SUPPORT ANGLES
DETAIL END SUPPORT ANGLE ATTACHMENT
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
TYP. EACH FLAT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS		
FLOOR TRUSSES	T1	6	C32T - 5	ST201
BRIDGING TRUSS	T11	4	24T - 9	ST201
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x9	ST403
	A2	4	3"x2"x1/4"x5	ST403
	A3	2	3"x2"x1/4"x5	ST403
DIAGONAL FLAT	F	6	1 1/2"x5/8"x6'	402
PATCH PLATES	PP1	24	2"x1/4"x	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x6 1/2"	ST400
	P2	8	4 1/2"x.30"x0'-9"	ST400
	P3	8	4 1/2"x.30"x1'-0"	ST400

NO.	DATE	REVISION	BY
1	5-27-69	AS NOTED	RJF

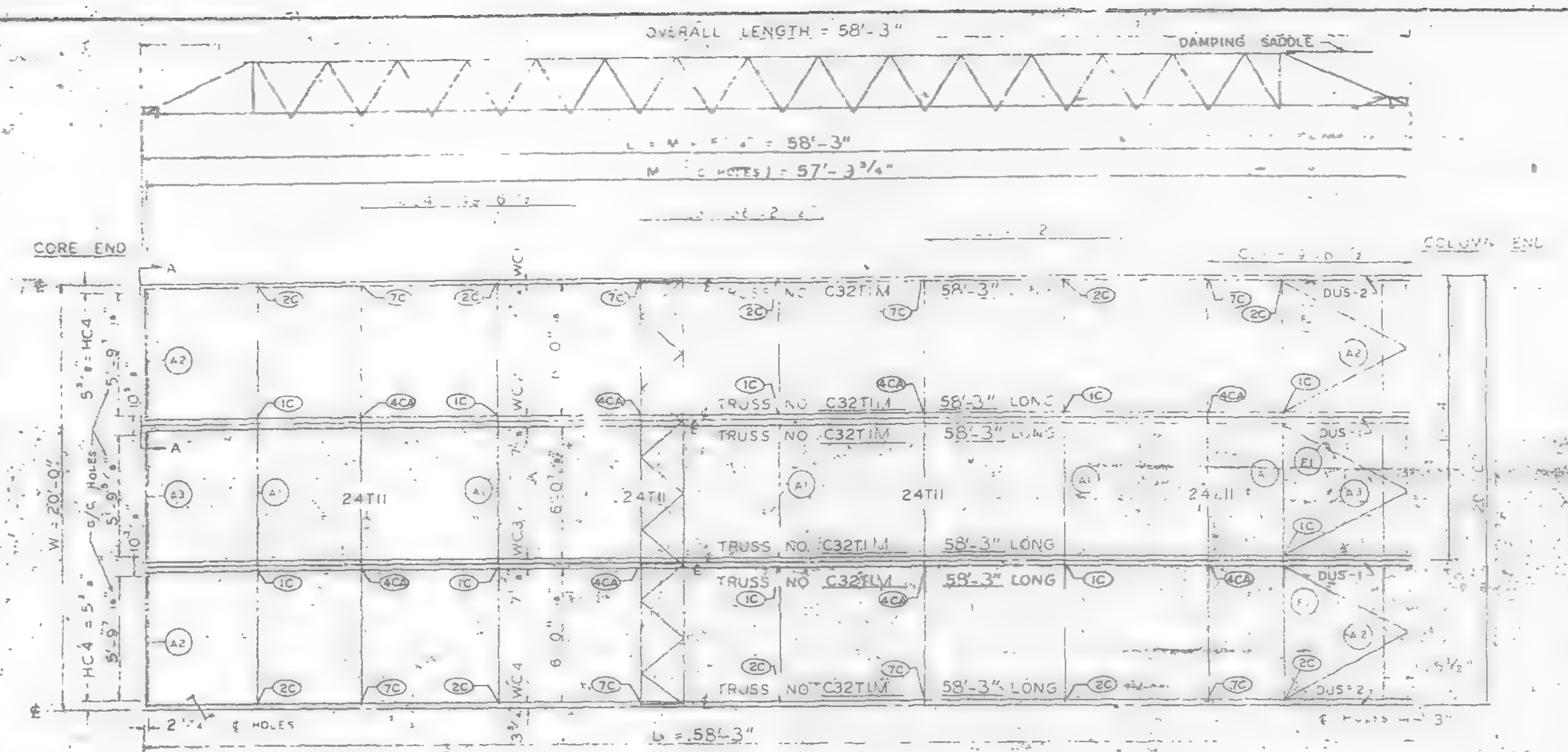
REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS
PANEL 20'-0" x 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST) 1

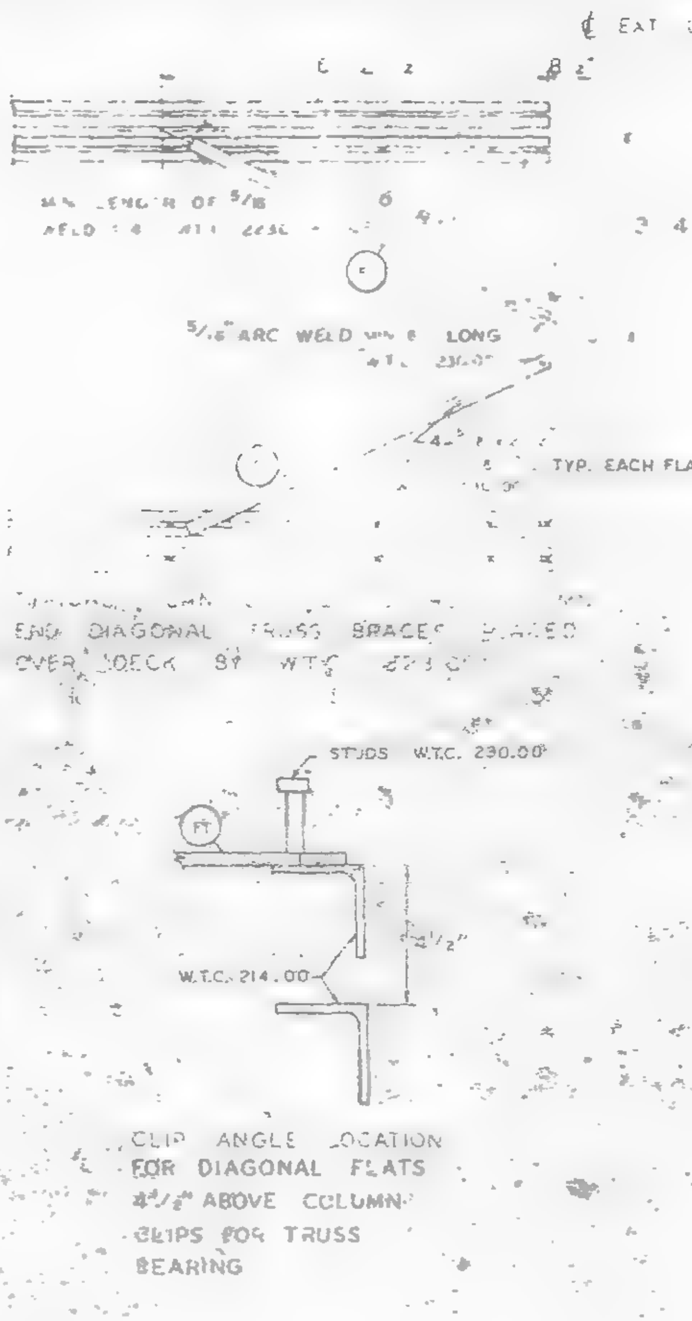
FABRICATION BY LACLEDE STEEL COMPANY

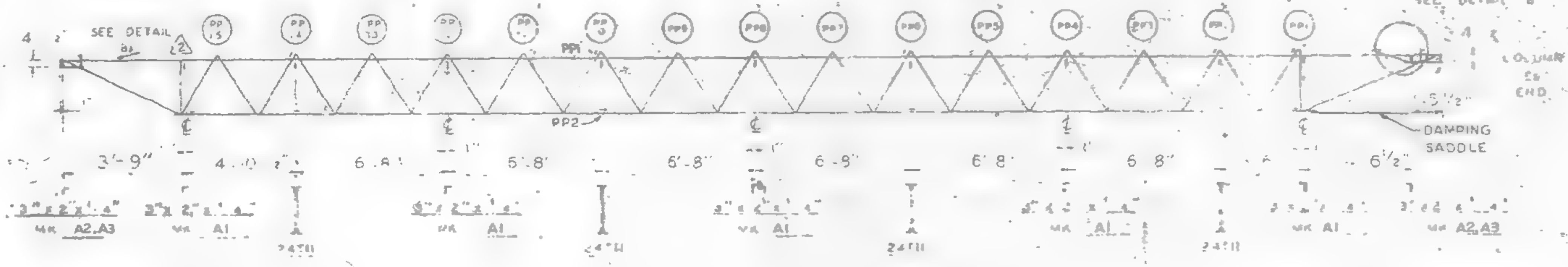
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY James White	DATE 1/8/70	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROG. DEV.
		FABRICATION CONT. NO WTC 221	SHEET FP A1K


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
58'-3"
57'-3 3/4"
CORE END
COLUMN END
TRUSS NO C32T1M 58'-3" LONG
24T11
DUS-1
DUS-2
HC4
WC4
WC3
L = 58'-3"
W = 20'-0"
2 1/4" ℄ HOLES

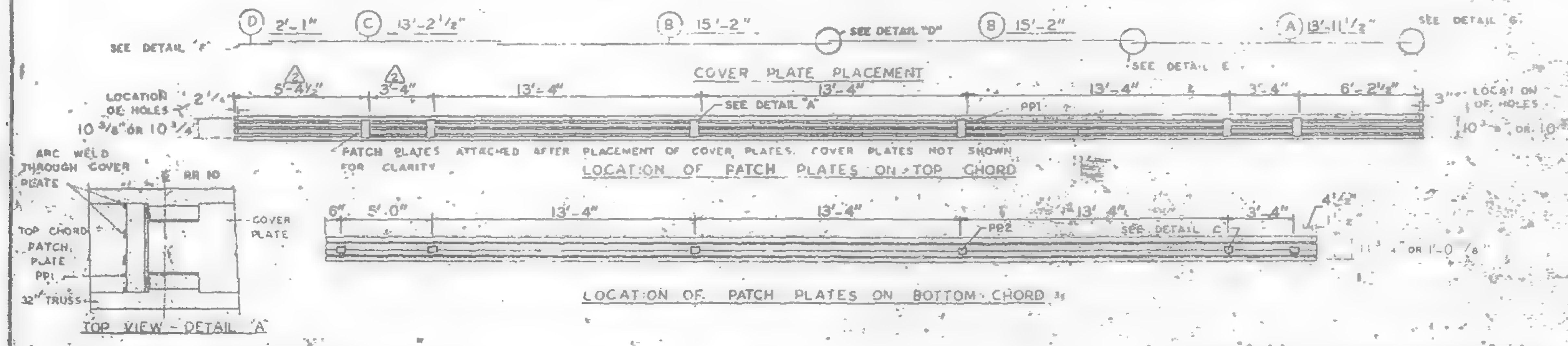
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

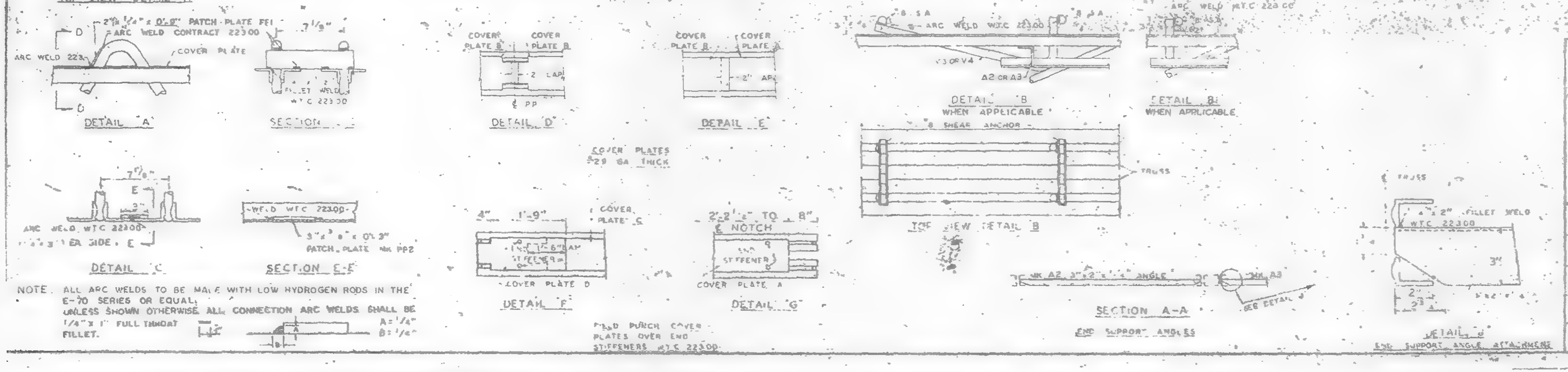
PANEL NO A1M △1 SIZE 20'-0" x 58'-3"


℄ EXT COL REF LINE
5/16 ARC WELD
TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 22300
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING


SEE DETAIL
CORE EL END
PP1
PP2
SEE DETAIL B
COLUMN EL END
DAMPING SADDLE
3'-9"
6'-8"
MK A2, A3
MK A1
24T11

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.


SEE DETAIL "F"
(D) 2'-1"
(C) 13'-2 1/2"
(B) 15'-2"
SEE DETAIL "D"
(B) 15'-2"
(A) 13'-11 1/2"
SEE DETAIL "G"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
13'-4"
SEE DETAIL "A"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD
PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
PP2
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD


2" x 1/4" x 0'-3" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 223
DETAIL "A"
FILLET WELD W.T.C 22300
SECTION
COVER PLATE B
2" LAP
PP
DETAIL "D"
COVER PLATE B
DETAIL "E"
ARC WELD W.T.C 22300
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL "B"
TRUSS
COVER PLATES #29 GA. THICK
ARC WELD W.T.C 22300
EA SIDE, E
DETAIL "C"
WELD W.T.C 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/8"

COVER PLATE C
STIFFENER
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
℄ NOTCH
STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 22300
MK A2, 3" x 2" x 1/4" ANGLE
MK A3
SEE DETAIL
SECTION A-A
END SUPPORT ANGLES
TRUSS
1/4" x 2" FILLET WELD W.T.C 22300
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	6	C32T1M - 5…	ST201M
BRIDGING TRUSS	T11	4	24T11 - 19	ST2
3" × 2" × 1/4" ANGLE	A1	5	3"x2"x1/4"x9'-…	ST403
	A2	4	3"x2"x1/4"x5'-11 3/8"	ST403
	A3	2	3"x2"x1/4"x5'-… 3/4"	ST401
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6-6	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-3"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.035"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3-6 7/8	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	8	4 1/2" x .39" x 0'-9"	ST400
	P3	8	4 1/2" x .39" x 1'-0"	ST400

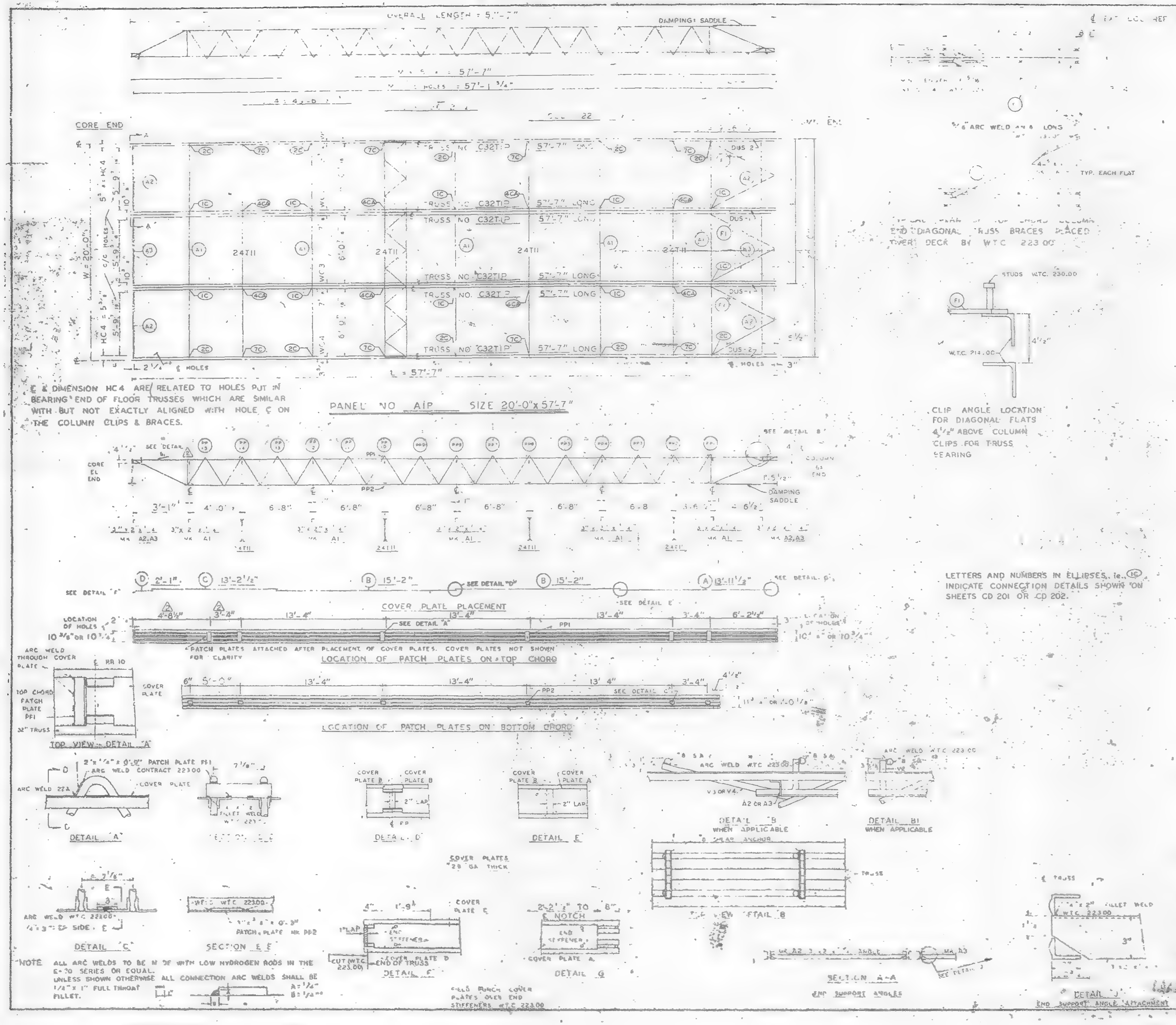
NO	DATE	REVISION	BY
△2	5-27-69	AS NOTED	RJF
△1	10-21-68	AS NOTED	GD

REF DRWG	
9-AB4-3	10-15-68
9-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
△2 7-AB3-2	1-3-68
9-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL A1M - … x 58'-3" △1
BLDG. B FLOORS 72 & 73 (WEST) △2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY James White PNYA DATE 1/2/70
DRAWN BY
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T. CHUPA
DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A G WEBER
FABRICATION CONT NO W.T.C 221
SHEET NO FP-A1M


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
57'-7"
57'-1 3/4"
CORE END
TRUSS NO. C32T1P 57'-7" LONG
24T11
W = 20'-0"
HC4
L = 57'-7"
2 1/4" ℄ HOLES
℄ HOLES
PANEL NO. A1P SIZE 20'-0" x 57'-7"
SEE DETAIL
CORE EL END
PP1
PP2
DAMPING SADDLE
3'-1" 4'-0" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6 1/2"
D 2'-1" C 13'-2 1/2" B 15'-2" B 15'-2" A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
4'-8 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/4"
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4" 4 1/2"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
TOP VIEW - DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
ARC WELD 22A
COVER PLATE
DETAIL "A"
7 1/8"
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
COVER PLATES "28" GA THICK
ARC WELD W.T.C. 22300
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL "B"
TRUSS
ARC WELD W.T.C. 22200
1/4" x 3" EA SIDE ℄
DETAIL "C"
W.T.C. 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
1" LAP
CUT (W.T.C. 223.00)
END OF TRUSS
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2 1/2" TO 8"
℄ NOTCH
COVER PLATE A
DETAIL "G"
MK A2 OR A3
SECTION A-A
END SUPPORT ANGLES
FILLET WELD W.T.C. 22300
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
5/16" ARC WELD 4" LONG
TYP. EACH FLAT
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. 1C INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/2"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PC	SIZE	
FLOOR TRUSSES	T1	6	C32T1P - 57'-7"	ST201
BRIDGING TRUSSES	T11	4	24T11 [illegible]	[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x9 [illegible]	ST403
	A2	4	3"x2"x1/4"x5'-[illegible]	ST403
	A3	2	3"x2"x1/4"x5'-[illegible] 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-6"	ST402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST400
	PP2	24	3" x 3/8" x 0'-3"	ST400
COVER PLATES ⚠1	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#5 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST296
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

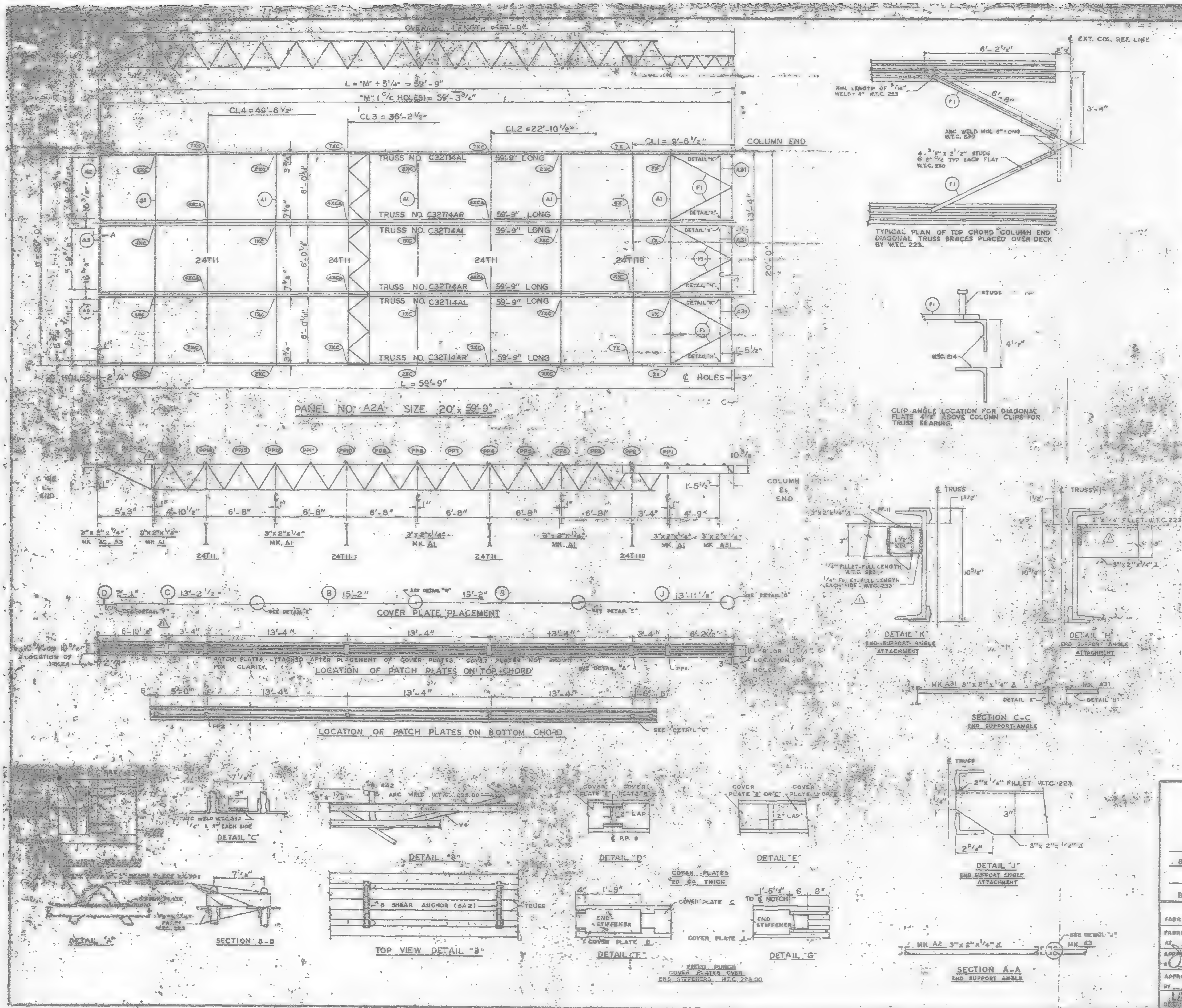
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	RJP
1	[illegible]	COVER PLATES	

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
⚠2 SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 (N)
PANEL A1P 20'-0" x 57'-7"
BLDG. B FLOORS 74 (WEST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A C WEBER
DESIGN DRAWING NO 7-AB3-3
PLATE
DRAWN BY [illegible] DATE FEB 24, 1968
CHECKED BY T CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP A1P


OVERALL LENGTH = 59'-9"
L = "M" + 5¼" = 59'-9"
"M" (C/C HOLES) = 59'-3¾"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10⅛"
CL1 = 9'-6½"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
DETAIL "K"
DETAIL "H"
20'-0"
HOLES
℄ HOLES
L = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
COLUMN END
24T11
24T11B
MK. A1
MK. A31
MK. A2, A3
COVER PLATE PLACEMENT
SEE DETAIL "G"
SEE DETAIL "E"
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
EXT. COL. REF. LINE
6'-2½"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4 - ⅜" x 2½" STUDS 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL PLATE 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
TRUSS
¼" FILLET-FULL LENGTH W.T.C. 223
¼" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
2"x¼" FILLET W.T.C. 223
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK. A31 3"x2"x¼"
SECTION C-C END SUPPORT ANGLE
DETAIL "C"
DETAIL "A"
SECTION B-B
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "C"
2" LAP
DETAIL "D"
COVER PLATES 20 GA. THICK
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TO ℄ NOTCH
COVER PLATE
DETAIL "E"
DETAIL "G"
2"x¼" FILLET W.T.C. 223
3"x2"x¼"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK. A2 3"x2"x¼"
SEE DETAIL "J"
MK. A3
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	BT 211
	T11B	1	24T11B x 19'-11"	BT 211B
3"x 2"x ¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	2	3"x2"x¼"x 5'-11⁹⁄₁₆"	ST 403
	A3	1	3"x2"x¼"x 5'-11¾"	ST 403
	A31	3	3"x2"x¼"x 5'-8⅛"	ST 410
CLOSURE PLATES	PF-11	3	3"x ¼" x 0'-2⅜"	ST 412
DIAGONAL FLATS	F1	6	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x ¼" x 0'-9"	ST 400
	PP2	24	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	8	9" x .0135" x 5'-2"	ST 303
	C	4	9" x .0135" x 13'-2½"	ST 303
	D	4	9"x .0135" x 2'-1"	ST 303
	J	4	9"x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	24	2"x 1½"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 0'-6½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400
	P9	8	3" x ½" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	7-1-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

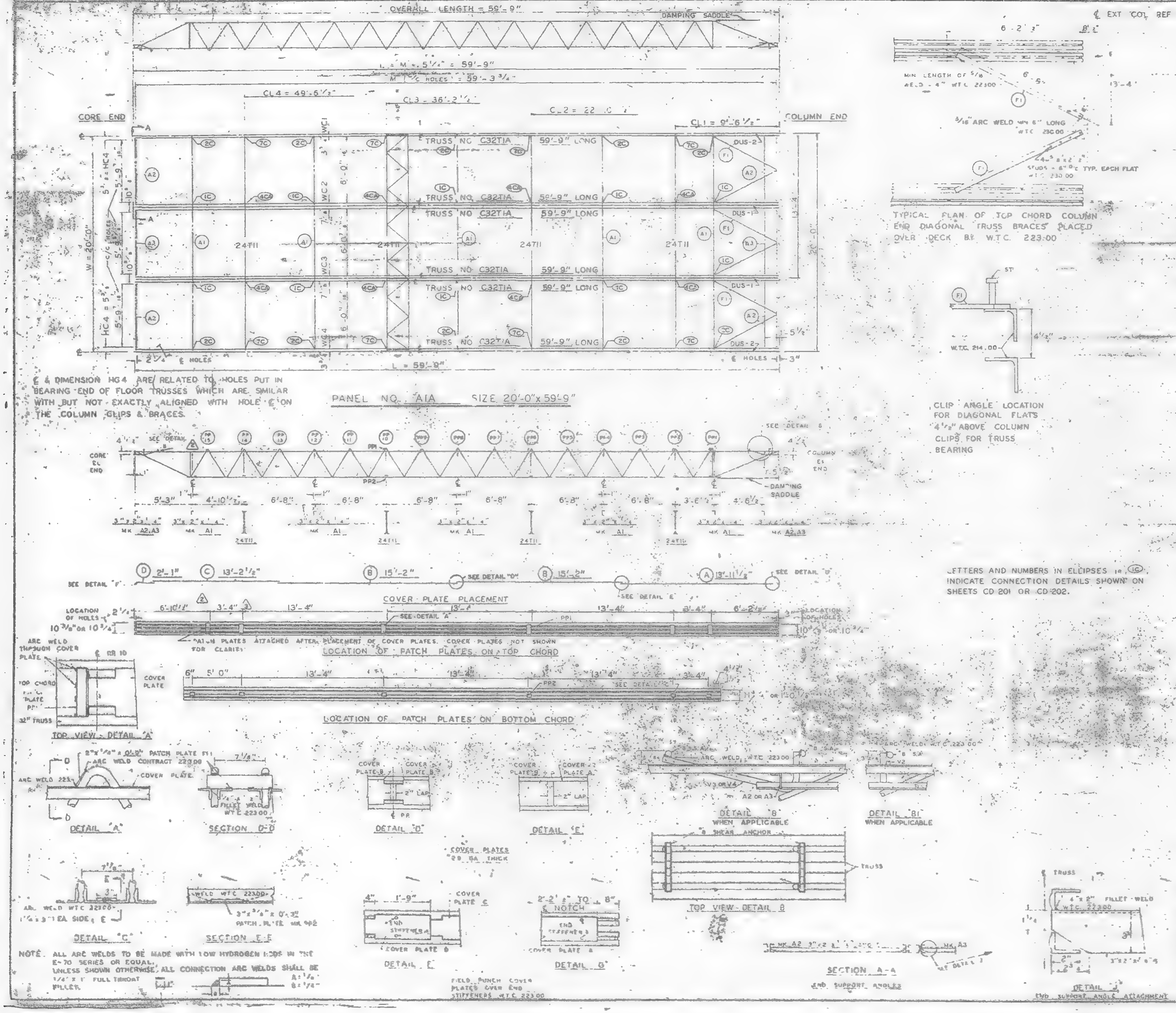
REF. DRWG.

7-AB3-25	10-4-68
7-AB3-24	8-15-68
7-AB1-13	10-4-68
7-AB2-5	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
1
PANEL 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY C.A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. SFP-A2A


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = M + 5 1/4" = 59'-9"
M 1/16" HOLES = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1A 59'-9" LONG
24T11
DUS-1
DUS-2
W = 20'-0"
L = 59'-9"
€ HOLES
PANEL NO. A1A SIZE 20'-0"x59'-9"
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6" 4'-6 1/2"
MK A2, A3
MK A1
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
ARC WELD W.T.C. 223.00
€ EXT. COL. REF. LINE
MIN. LENGTH OF 5/16" WELD - 4" W.T.C. 223.00
3/16" ARC WELD 6" LONG W.T.C. 223.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK B1 W.T.C. 223.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

€ & DIMENSION HG4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES IE (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/8" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST2[illegible]
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST2.1
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-[illegible]	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST299
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST299
CONNECTION BAR	CB1	2	[illegible]	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
4	5-13-69	AS NOTED	G.D.
3	3-11-69	AS NOTED	G.D.
2	2-17-69	AS NOTED	G.D.
1	7-12-68	GENERAL	T.H.

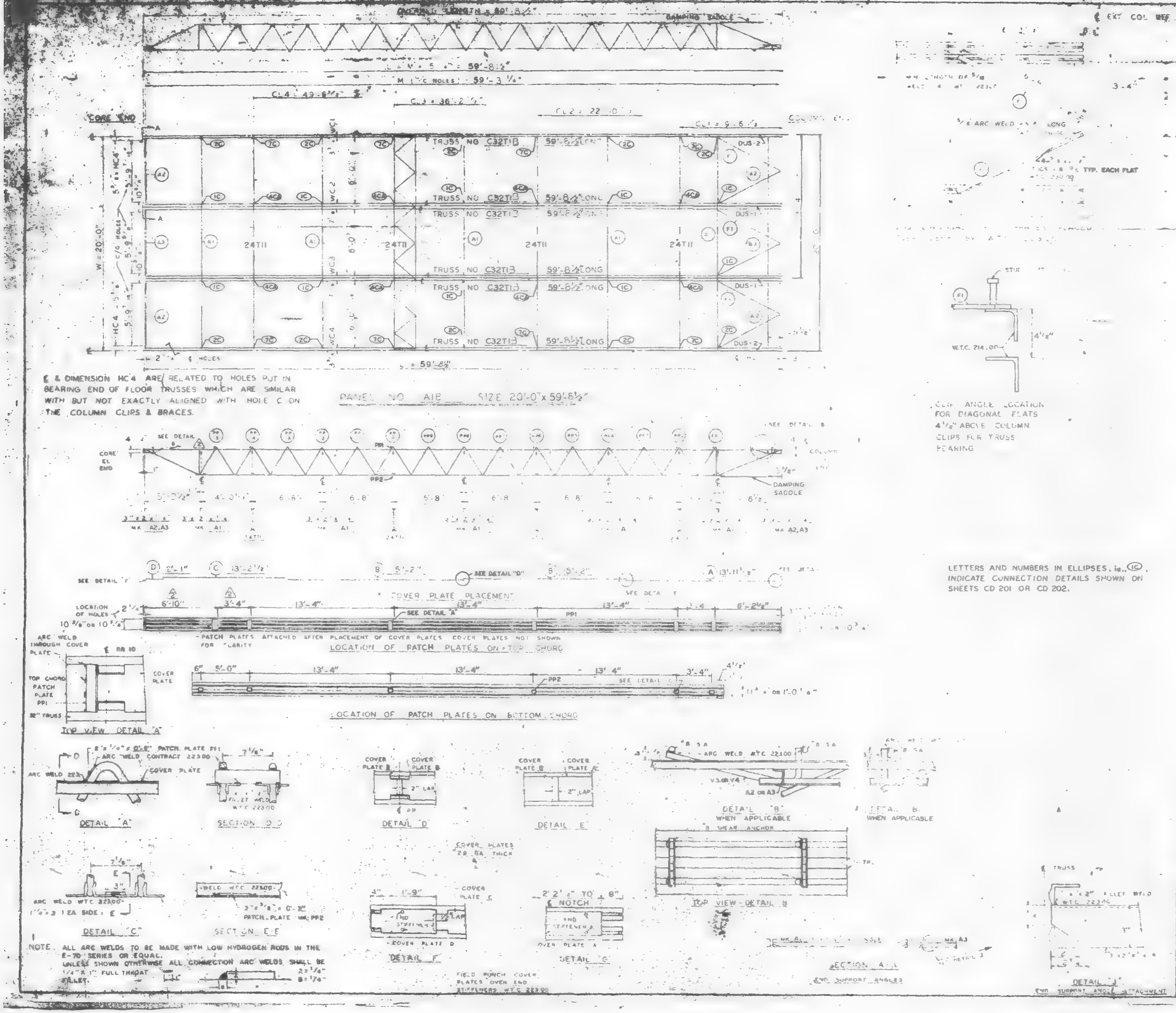
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER • N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) [illegible], 60-66, 68, 69 (NORTH) PANEL A1A = [illegible]
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR [illegible]	DATE [illegible]	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY J.R.PAUL DATE FEB. 24, 1968	IN CHARGE [illegible]
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	[illegible]



OVERALL LENGTH = 60'-8½"
DAMPING SADDLE
EXT COL REF LINE
M (C/C HOLES) 59'-3 ¼"
CL 4 = 49'-6½"
CL 3 = 36'-2"
CL 2 = 22'-10"
CORE END
TRUSS NO C32T13 59'-8½" LONG
24T11
W = 20'-0"
HC4
WC2
WC3
WC4
DUS-1
DUS-2
S = 59'-8½"
PANEL NO A13 SIZE 20'-0" x 59'-8½"
CORE EL END
SEE DETAIL B
PP1
PP2
DAMPING SADDLE
COLUMN
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "A"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
ARC WELD WTC 22300
COVER PLATES 28 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T13	6	C32T1 - 59'-8½"	ST
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST21
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 400
	A2	4	3"x2"x¼"x 5'-11⅝"	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x⅜"x 8'-8"	ST 4
PATCH PLATES	PP1	24	2"x¼"x 0'-9"	ST 400
	PP2	24	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST 303
	B	8	9"x.0135"x 15'-2"	ST 303
	C	4	9"x.0135"x 13'-2½"	ST 303
	D	4	9"x.0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x1½"x¼"x 0'-6"	ST 400
SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST 298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST 298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 6½"	ST 400
	P2	8	4½" x .30" x 0'-9"	ST 400
	P3	8	4½" x .30" x 1'-0"	ST 400

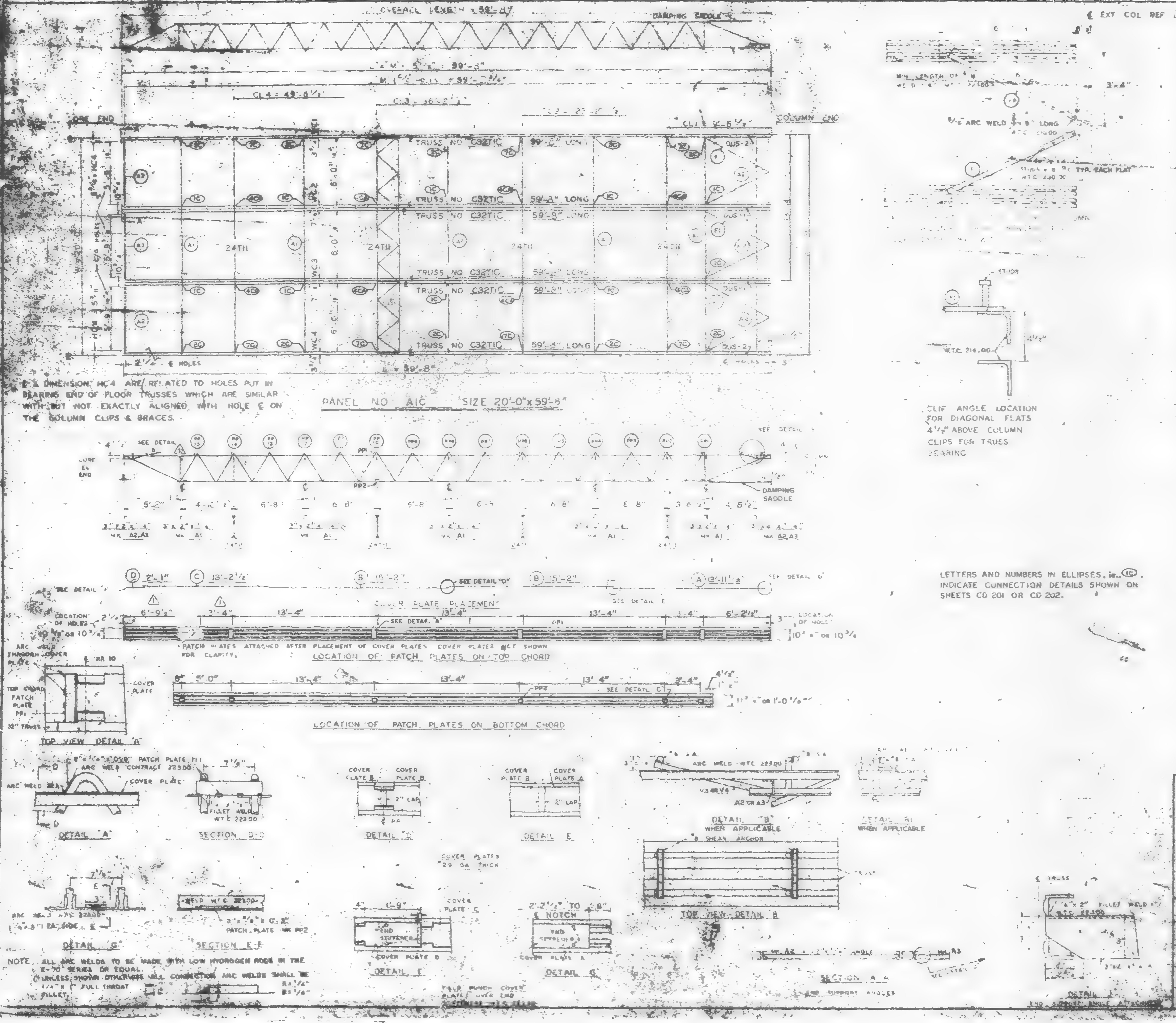
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	10-21-68	AS NOTED	G.D.C.

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
SA 124 1-8-65
7-AB3-3
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93-106 (NORTH) ⚠1
PANEL A13
BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
APPROVED FOR FABRICATION BY
DATE
DRAWN BY
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY L. CHURA
DATE OCT. 11, 1968
DETAILED BY A. S. WEBER
FABRICATION CONT. NO.


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
CL 4 = 49'-6 1/2"
CL 3 = 36'-2 1/4"
CL 1 & 2'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1C 59'-8" LONG
24T11
WC2
WC3
WC4
DUS-2
6 HOLES
59'-8"
PANEL NO. A1C SIZE 20'-0" x 59'-8"
SEE DETAIL
PP1
PP2
CORE EL END
DAMPING SADDLE
MK A2,A3
MK A1
24T11
COVER PLATE PLACEMENT
SEE DETAIL "A"
SEE DETAIL "D"
SEE DETAIL E
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
LOCATION OF HOLES
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "C"
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
#8 SHEAR ANCHOR
COVER PLATES 28 GA. THICK
DETAIL "G"
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END
ARC WELD WTC 22300
COVER PLATE
END STIFFENER
NOTCH
5/16 ARC WELD 3/16 x 8" LONG
TYP. EACH FLAT
STUDS
W.T.C. 214.00
€ EXT COL REF LINE

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	8	C32T1A - 59'-8"	ST201
BRIDGING TRUSSES	TH	4	24T11 - [illegible]-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-9"	ST403
	A2	4	3"x2"x1/4"x 5'-11 [illegible]"	ST403
	A3	2	3"x2"x1/4"x 5'-11 [illegible]"	ST403
DIAGONAL FLATS	F1	8	1 1/2"x 5/8"x 8'-8"	ST [illegible]
PATCH PLATES	PP1	24	3"x 3/4"x 0'-9"	ST [illegible]
	PP2	24	3"x 3/4"x 0'-3"	ST [illegible]
COVER PLATES	A	4	9"x.0135 x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 12'-2 1/4"	ST304
	D	4	9"x .035"x 2'-1"	ST30.
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHIELD ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-4	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST266
	DUS-2	2	3 1/2 x3 1/2"x 3/8"x3'-6 7/8"	ST266
CONNECTION BAR	CB1	8	[illegible] x 1 3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 5/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	3	4 1/2" x .30" x 1'-0"	ST 400

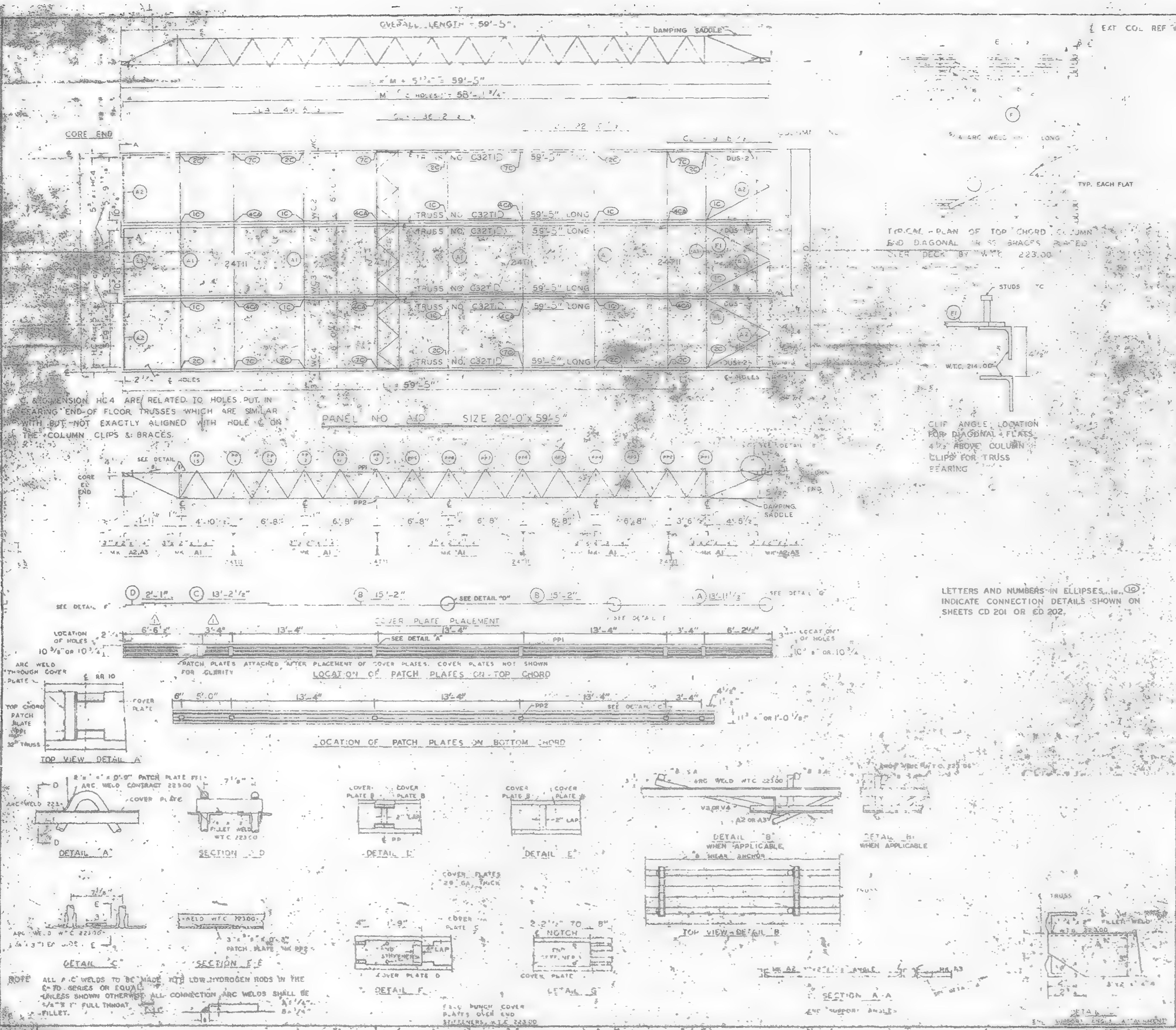
NO.	DATE	REVISION	BY
	[illegible]	[illegible]	
1	5-27-69	AS NOTED	

△1 REF DRWG
7-AB4-3 3-15-68
7-AB4-15 & 16 7-2-[illegible]
7-AB4-41 [illegible]-22-68
SA-12 [illegible] 1-8-68
7-AB3-2 1-2-68
7-AB1-2 7-2-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL 31
BLDG. B FLOORS 49-58, 60-74, 78-[illegible], [illegible]-106 (EAST [illegible])

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible]
APPROVED FOR FABRICATION BY
DATE
CHECKED BY
DETAILED BY [illegible]


OVERALL LENGTH - 59'-5"
DAMPING SADDLE
CORE END
TRUSS NO. C32T1D 59'-5" LONG
24T11
PANEL NO. A1D SIZE 20'-0" x 59'-5"
SEE DETAIL B
CORE END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE SHEAR ANCHOR
DETAIL B WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL WEB BRACES PLACED OVER DECK BY W.T.C. 223.00
TYP. EACH FLAT
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL 4 FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
EXT. COL. REF. LINE

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. ⑩ INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T1L	6	C32T1D - 59'-5"	ST201D
BRIDGING TRUSSES	T1I	4	24" - 19'-11"	[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-8"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST 303
	B	8	9"x.0135"x15'-2"	ST 303
	C	4	9"x.0135"x13'-2 1/2"	ST 303
	D	4	9"x.0135"x2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
5 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 299
CONNECTION BAR	CB1	8	1"x1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x6 1/2"	ST 400
	P2	8	4 1/2"x.30"x0'-8"	ST 400
	P3	6	4 1/2"x.30"x1'-0"	ST 400

NO.	DATE	REVISION	BY
[illegible]	[illegible]	[illegible]	[illegible]
	5-27-69	AS NOTED	[illegible]

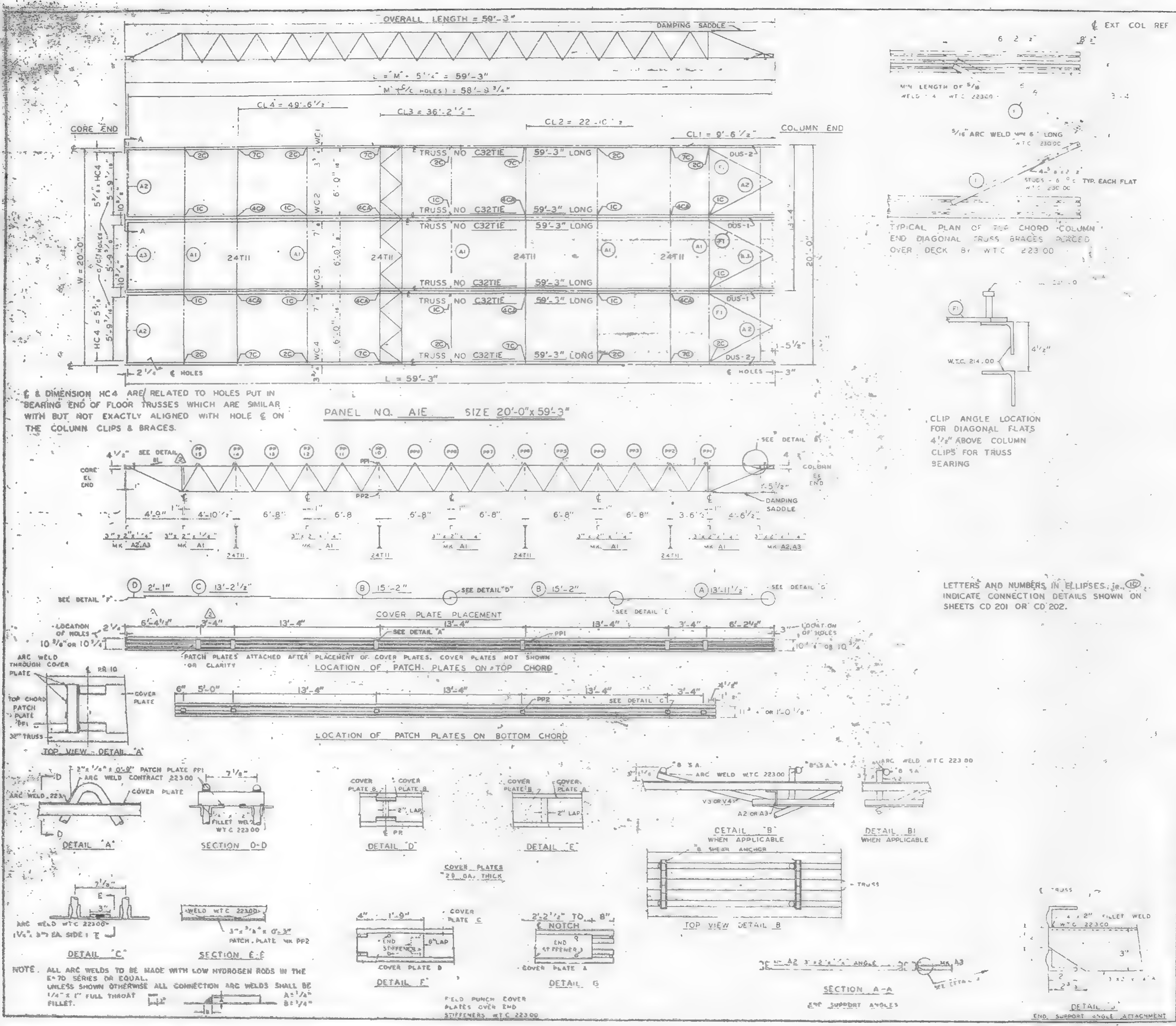
REF. DRWG
7-AB4-3 10-15-68
7-AB4-5 & 16 7-22-68
7-AB4-41 7-24-68
SA-124 5-69
7-AB3-2 3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL A1D [illegible] x 59'-5"
BLDG. B FLOORS 81-82 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY [illegible]	DATE [illegible]	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. [illegible] 1968	IN CHARGE [illegible]
DETAILED [illegible]		FABRICATION CONT. NO. W.T.C. [illegible]	SHEET [illegible]


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10"
CL1 = 9'-6½"
L = 59'-3"
W = 20'-0"
TRUSS NO C32TIE 59'-3" LONG
24T11
EXT COL REF LINE
PANEL NO. A1E SIZE 20'-0"x59'-3"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL G
SECTION A-A
END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 22300
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	BT211
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x ⅝"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x ¼"x 0'-9"	ST 400
	PP2	24	3"x ⅜"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x ⅜" x 8½"	ST 400
	P2	8	4½" x .30" x 0'-9"	ST 400
	P3	8	4½" x .30" x 1'-0"	ST 400

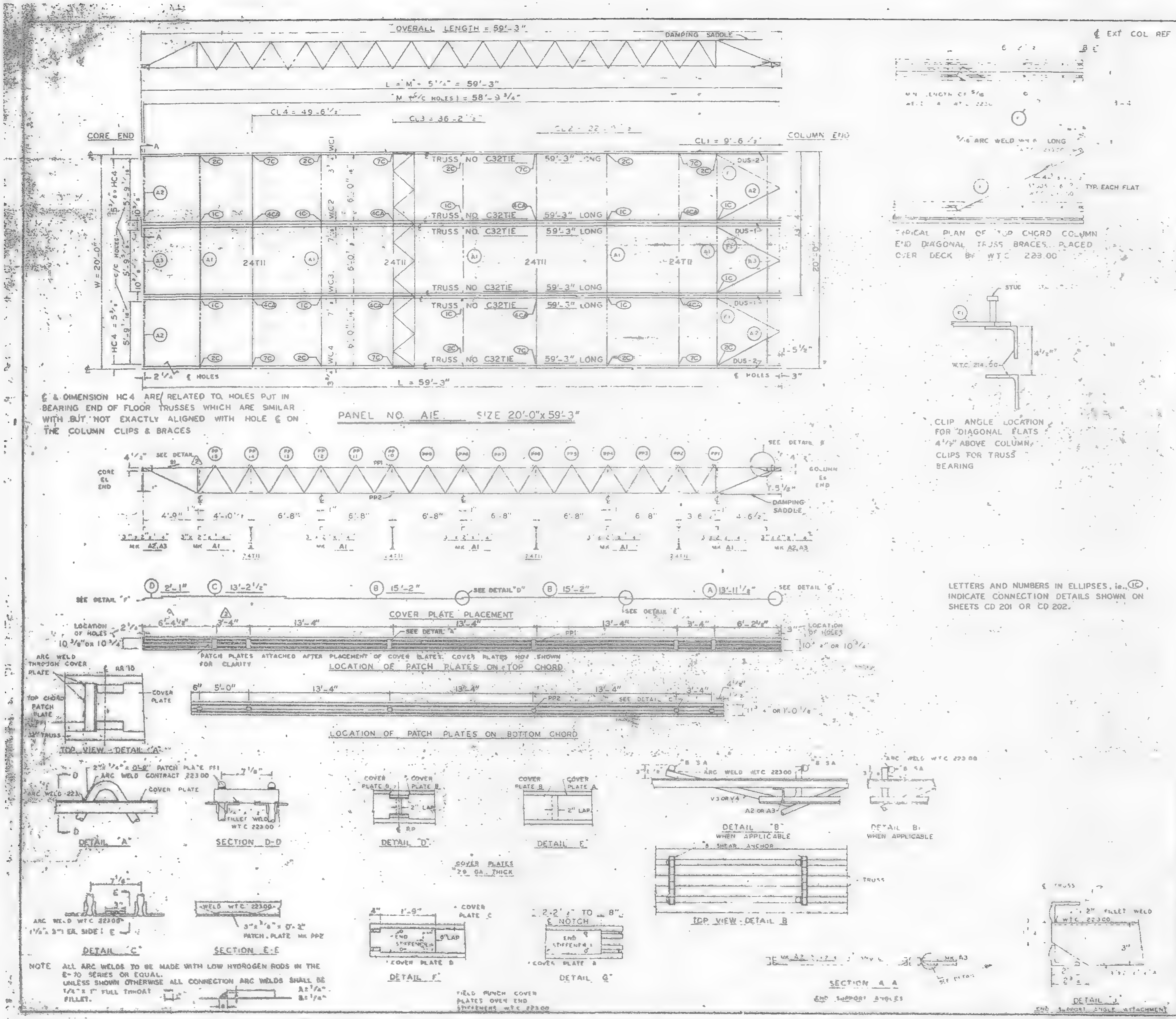
NO	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.P.
1	7-12-68	GENERAL	T.M.C.

REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-23-68
	7-AB4-41	7-22-68
2	SA 124	1-6-69
	7-AB3-2	1-3-68
	7-AB1-2	7-22-68
	7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)
PANEL A1E 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA
DATE 1/2/70
DRAWN BY [illegible]
DATE FEB 24, 1966
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR
DATE
CHECKED BY J.R. PAUL
DATE FEB 24, 1966
IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO FP A1E


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = M + 5¼" = 59'-3"
M (℄/C HOLES) = 58'-9¾"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-1½"
CL1 = 9'-6½"
CORE END
COLUMN END
TRUSS NO. C32TIE 59'-3" LONG
24T11
DUS-1
DUS-2
W = 20'-0"
HC4 = 5¾"
L = 59'-3"
2¼" ℄ HOLES
℄ HOLES 3"
℄ EXT COL REF LINE
TYP. EACH FLAT
STUD
W.T.C. 214.00
CORE ℄L END
COLUMN ℄L END
SEE DETAIL "B"
DAMPING SADDLE
4'-9"
4'-10"
6'-8"
MK A2, A3
MK A1
COVER PLATE PLACEMENT
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
SEE DETAIL "A"
SEE DETAIL "C"
LOCATION OF HOLES 10⅜" OR 10¾"
PP1
PP2
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL B
ARC WELD W.T.C. 223.00
1½" x 3" EA. SIDE ℄
DETAIL "C"
WELD W.T.C. 223.00
3" x ⅜" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
COVER PLATE D
DETAIL F
2'-2½" TO 8"
℄ NOTCH
END STIFFENERS
COVER PLATE A
DETAIL G
SECTION A-A
END SUPPORT ANGLES
2" FILLET WELD W.T.C. 223.00
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL NO. A1E SIZE 20'-0" x 59'-3"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD

COVER PLATES 20 GA. THICK

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x19'-11"	ST403
	A2	4	3"x2"x¼"x5'-11 $\frac{9}{16}$	ST403
	A3	2	3"x2"x¼"x5'-11¾"	ST403
DIAGONAL FLATS	F1	6	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x¼"x0'-9"	ST400
	PP2	24	3"x⅜"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11½"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2½"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3½"x⅜"x8½"	ST400
	P2	8	4½"x.39"x0'-9"	ST400
	P3	8	4½"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY
2	3-27-69	AS NOTED	R.J.F.
1	7-12-68	GENERAL	T.M.

REF. DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
2 SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

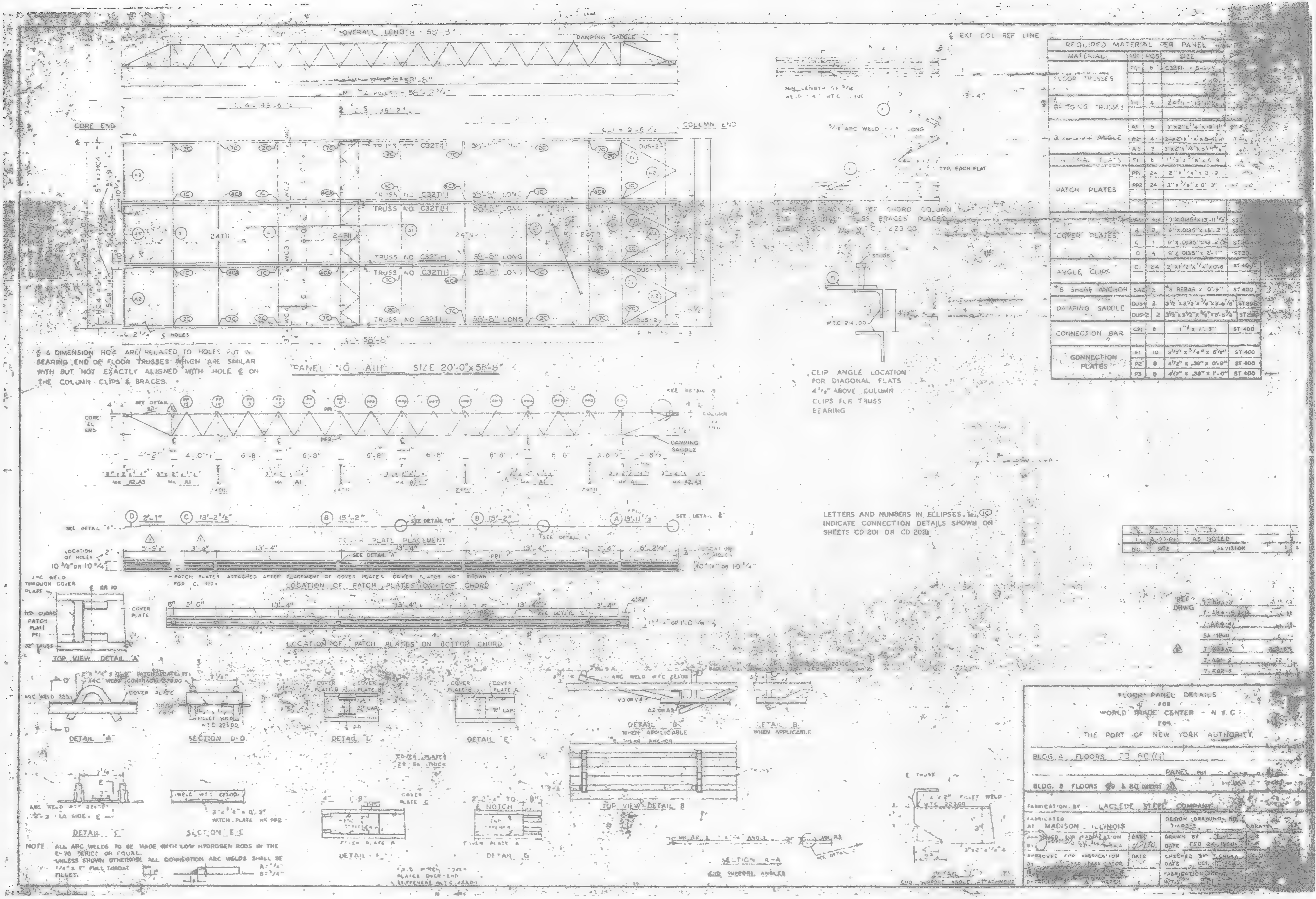
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)

PANEL A1E = 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 PLATE 55	
APPROVED FOR FABRICATION BY [illegible]	DATE	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY J.B. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DIV.
DETAILED BY A.S. REYES		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP A1E


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
58'-8"
CORE END
COLUMN END
TRUSS NO C32T1H 58'-8" LONG
24T1I
DUS-2
DUS-1
5/16 ARC WELD
TYP. EACH FLAT
STUDS
W.T.C. 214.00
PANEL NO A1H SIZE 20'-0" x 58'-8"
CORE EL END
PP1
PP2
COLUMN END
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "A"
SEE DETAIL "D"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
3"x 5/8" x 0'-3" PATCH PLATE MK PP2
COVER PLATES 20 GA. THICK
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT

& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES I.E. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - [illegible]	
BRIDGING TRUSSES	T1I	4	24T1I - [illegible]	
[illegible] ANGLE	A1	5	3"x2"x1/4"x 9'-11"	[illegible]
	A2	4	3"x2"x1/4"x 5'-4 1/16"	
	A3	2	3"x2"x1/4"x 5'-11 5/8"	
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 5' 8	
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9	
	PP2	24	3" x 5/8" x 0'-3"	ST [illegible]
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST3[illegible]
	B	6	9"x.0135"x 15'-2"	ST3[illegible]
	C	1	9"x.0135"x13-2 1/2"	ST3[illegible]
	D	4	9"x.0135"x 2'-1"	ST30[illegible]
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6	ST 400
#8 SHEAR ANCHOR	SA2	12	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST 296
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST 296
CONNECTION BAR	CB1	8	1" x 1'-3"	ST 400
CONNECTION PLATES	F1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

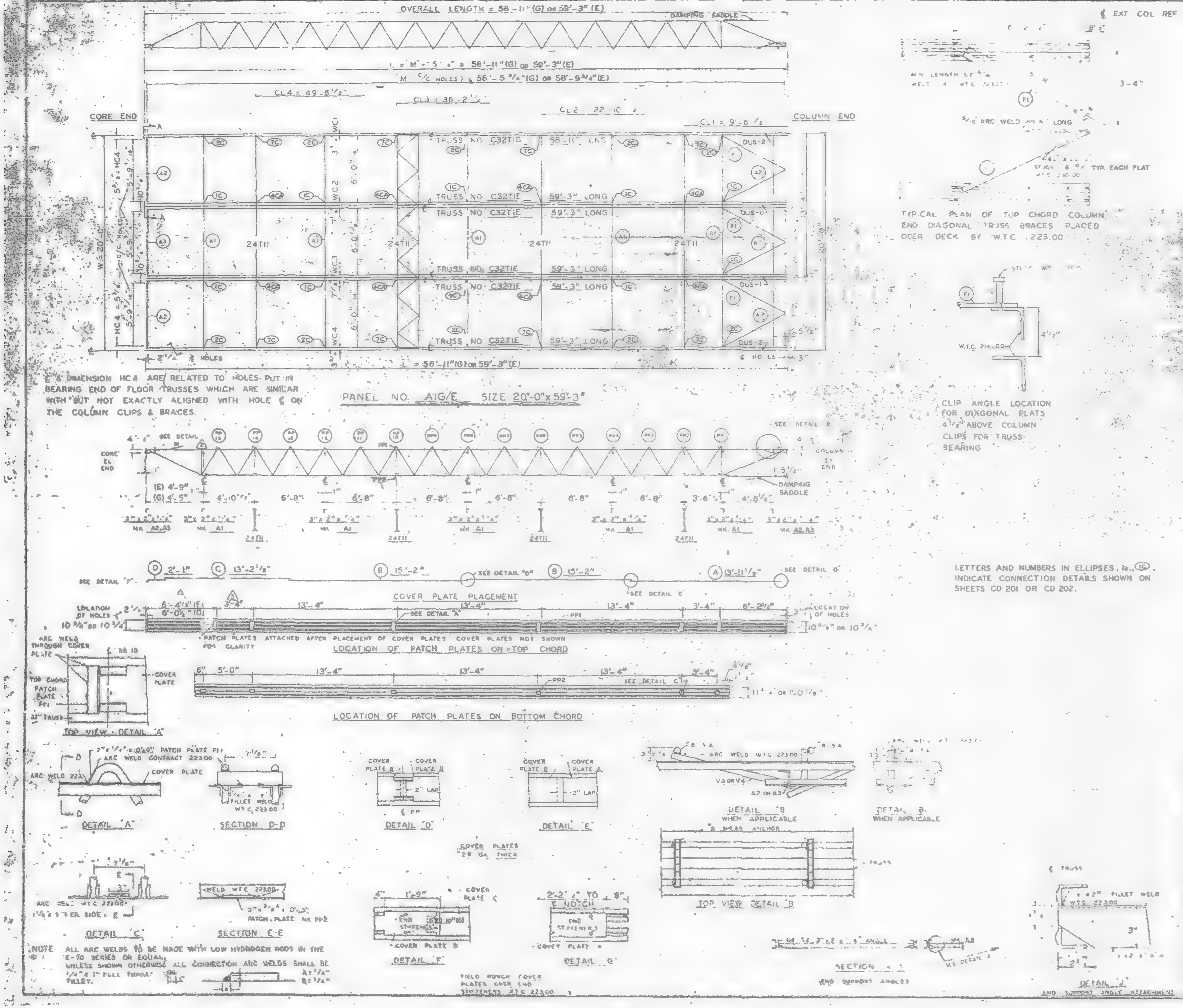
NO.	DATE	REVISION
[illegible]	[illegible]	[illegible]
1	6-27-69	AS NOTED

REF DRWG
7-AB4-[illegible]
7-AB4-15
7-AB4-41
SA-12WB
7-AB3-[illegible]
7-AB1-2
7-AB2-6

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible] 80 (N)
PANEL A1I
BLDG. B FLOORS 79 & 80 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB2-[illegible]
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T. CHUA DATE OCT [illegible]
DETAILED BY [illegible] WEBER
FABRICATION CONT. [illegible]


OVERALL LENGTH = 58'-11" (G) OR 58'-3" (E)
DAMPING SADDLE
L = M + 5 1/4" = 58'-11" (G) OR 59'-3" (E)
M C/C HOLES = 58'-5 3/4" (G) OR 58'-9 3/4" (E)
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32TIG 58'-11" LONG
TRUSS NO. C32TIE 59'-3" LONG
24T11
WC1
WC2
WC3
WC4
HC4
DUS-1
DUS-2
2 1/4" ℄ HOLES
= 58'-11" (G) OR 59'-3" (E)
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. A1G/E SIZE 20'-0" x 59'-3"
CORE EL END
COLUMN END
DAMPING SADDLE
SEE DETAIL B1
SEE DETAIL B
(E) 4'-9"
(G) 4'-5"
4'-0 1/2"
6'-8"
3'-6 1/2"
4'-6 1/2"
MK A2,A3
MK A1
24T11
SEE DETAIL F
SEE DETAIL D
SEE DETAIL E
SEE DETAIL B
2'-1"
13'-2 1/2"
15'-2"
13'-11 1/2"
COVER PLATE PLACEMENT
LOCATION OF HOLES
SEE DETAIL A
PP1
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL C
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
COVER PLATE
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
COVER PLATES 28 GA THICK
TOP VIEW DETAIL B
ARC WELD WTC 223.00
1 1/4" x 3" EA SIDE E
DETAIL C
WELD WTC 223.00
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
DETAIL F
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
SECTION
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
℄ EXT COL REF LINE
TYP. EACH FLAT
W.T.C. 214.00
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST201E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-1"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST302
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

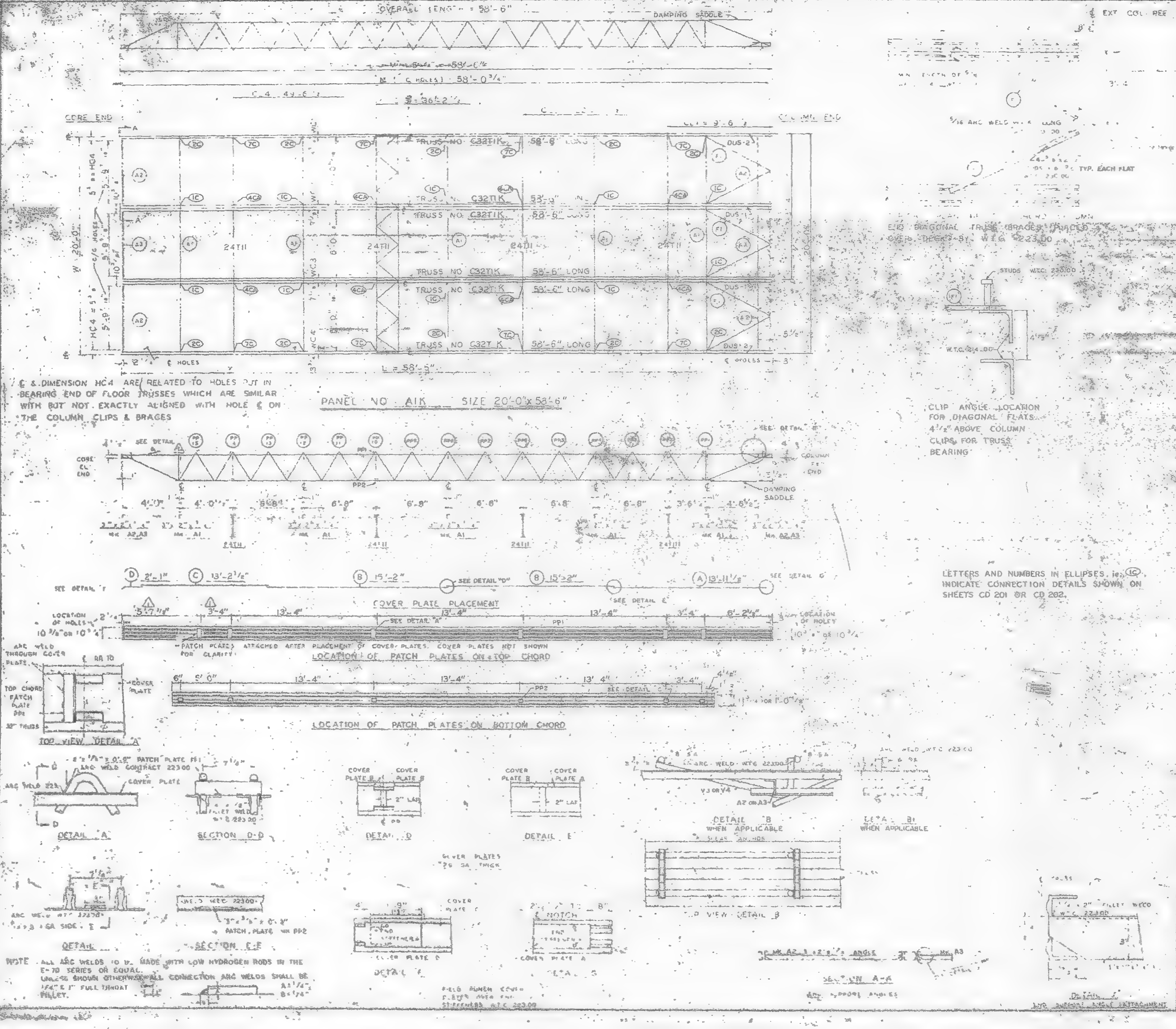
NO.	DATE	REVISION	BY
2	5-27-69	AS NOTED	R.J.
1	7-12-68	GENERAL	T.W.

REF. DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
SA 124 1-6-69
7-AB3-2 1-3-68
2 7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)
PANEL A1G/E 20'-0" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-4 PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE	DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J.B. PAUL DATE FEB. 24, 1968 IN CHARGE OF PROD.
DETAILED	FABRICATION CONT. NO. W.T.C. 221 SHEET FD A1G/E


OVERALL LENGTH = 58'-6"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T1K 58'-6" LONG
24T11
DUS-1
DUS-2
HC4
WC3
WC4
L = 58'-5"
PANEL NO. A1K SIZE 20'-0" x 58'-6"
SEE DETAIL "B"
CORE CL END
COLUMN END
PP2
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL D
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION E-E
SECTION A-A
STUDS W.T.C. 223.00
W.T.C. 214.00
5/16 ARC WELD W.T.C. LONG
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

END DIAGONAL TRUSS BRACES PLACED OVER DECKS BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" & 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T12	6	C32T1K - 5[illegible]	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-11	[illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4	ST 403
DIAGONAL FLAT	F1	5	1 1/2"x5/8"x5'-6"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	6	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x0'6 1/2"	ST 400
	P2	8	4 1/2"x.30"x0'-9"	ST 400
	P3	8	4 1/2"x.30"x1'-0"	ST 400

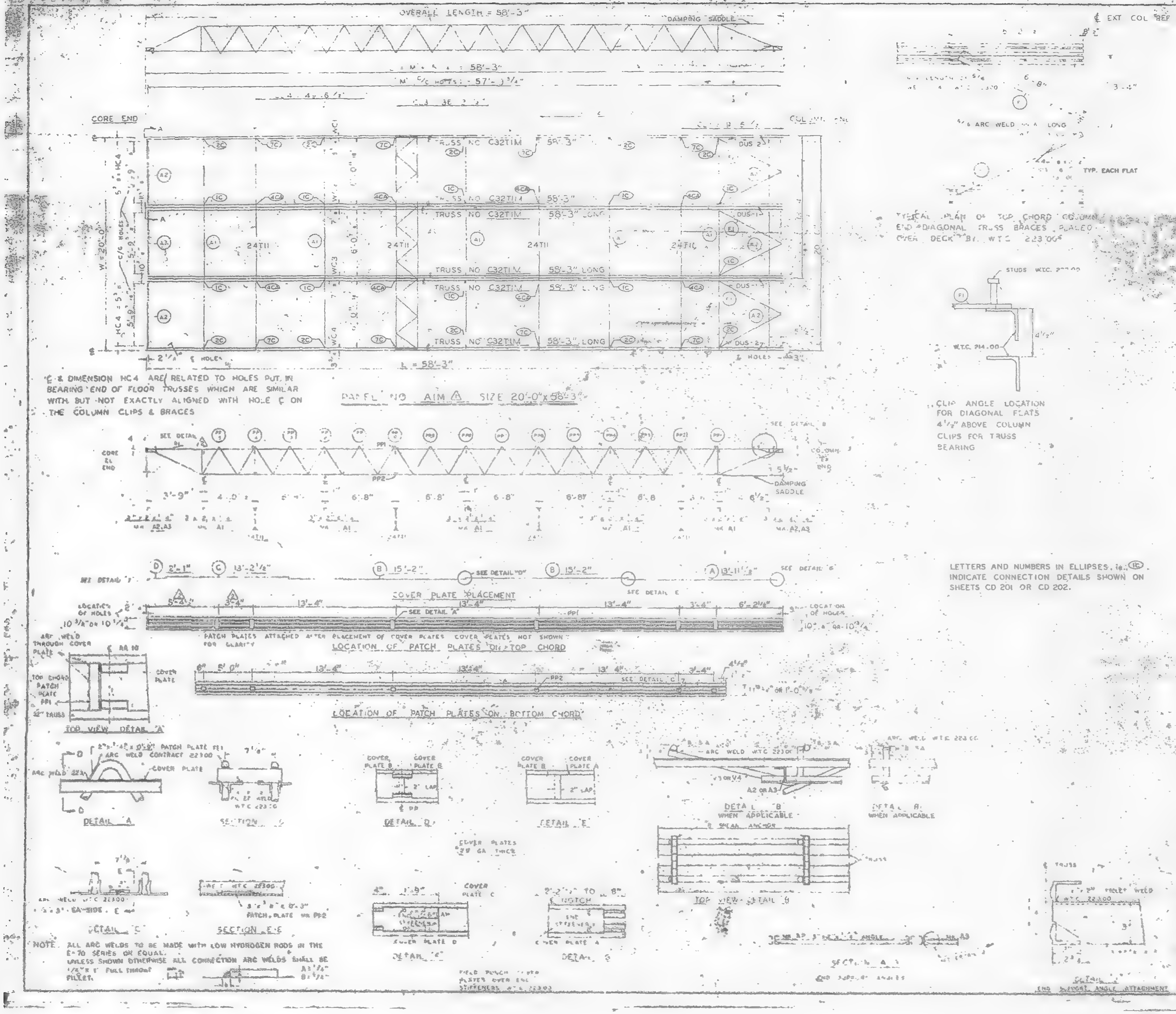
NO.	DATE	REVISION
1	5-27-69	AS NOTED

REF DRWG
7-AB2-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL A1K 20'-0" x 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
APPROVED FOR FABRICATION FOR SONYA DATE [illegible]
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
CHECKED BY T.CHUBA DATE OCT. 1968
FABRICATION CONT. NO. W.T.C. 221
SHEET FP [illegible]


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
58'-3"
57'-3 3/4"
CORE END
COLUMN END
TRUSS NO C32T1M 58'-3"
TRUSS NO C32T1M 58'-3" LONG
24T11
DUS-2
DUS-1
2C
7C
1C
4CA
A1
A2
A3
E1
W = 20'-0"
C/C HOLES
HC4
WC3
WC4
2 1/4"
C HOLES
L = 58'-3"
PANEL NO A1M △ SIZE 20'-0" x 58'-3"
SEE DETAIL
CORE CL END
PP1
PP2
COLUMN END
5 1/2"
DAMPING SADDLE
3'-9"
4'-0"
6'-8"
6 1/2"
A2, A3
A1
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/4" OR 10 1/4"
13'-4"
3'-4"
6'-2 1/2"
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
COVER PLATE
TRUSS
TOP VIEW DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
ARC WELD
COVER PLATE
DETAIL "A"
SECTION
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE A
DETAIL "E"
COVER PLATES
ARC WELD W.T.C. 22300
A2 OR A3
DETAIL "B" WHEN APPLICABLE
#6 SHEAR ANCHOR
TOP VIEW DETAIL "B"
DETAIL "B" WHEN APPLICABLE
ARC WELD W.T.C. 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
DETAIL "C"
SECTION E-E
COVER PLATE C
LOWER PLATE D
DETAIL "C"
NOTCH
END STIFFENERS
COVER PLATE A
DETAIL "F"
FIELD PUNCH
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
EXT COL REF LINE
3/8 ARC WELD
TYP. EACH FLAT
STUDS W.T.C.
F1
W.T.C. 214.00
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	6	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	S.211
3x2x1/4 ANGLE	A1	5	3"x2"x1/4"x9'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
[illegible]	F	6	1 1/2"x3/8"x6'-6"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#6 SHEAR ANCHOR	SA2	[illegible]	#6 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST296
	DUS2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST296
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x6 1/2"	ST400
	P2	8	4 1/2"x.30"x0'-9"	ST400
	P3	8	4 1/2"x.30"x1'-0"	ST400

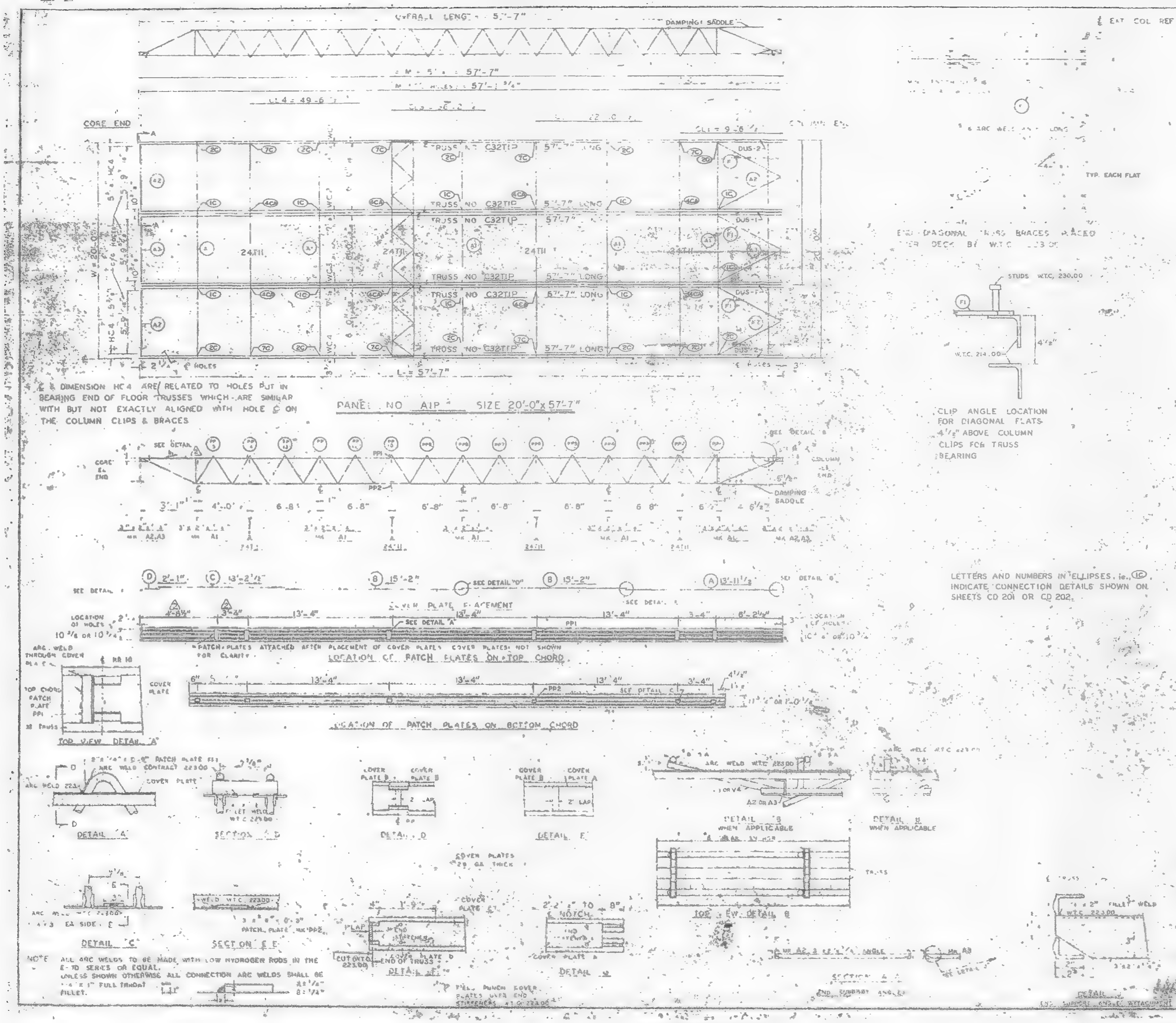
NO	DATE	REVISION	BY
2	5-27-69	AS NOTED	RJ
1	10-21-68	AS NOTED	G.

REF. DRWG.	
7-AB4-3	10-15-68
7-AB4-15 & 18	7-22-68
7-AB4-41	7-22-68
SA-124	1-5-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL A1M △ 20'-0" x 58'-3"
BLDG. B FLOORS 72 & 73 (WEST) △

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-3
PLATE
APPROVED FOR FABRICATION BY [illegible] FOR [illegible]
DATE [illegible]
DRAWN BY [illegible]
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATION
DATE
CHECKED BY T. CHUNG
DATE OCT. 11, 1968
IN CHARGE OF ENGR.
DETAILED BY A.S. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP


OVERALL LENGTH 57'-7"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1P 57'-7" LONG
24T11
DUS-1
DUS-2
2 1/4" HOLES
L = 57'-7"
PANEL NO A1P SIZE 20'-0" x 57'-7"
SEE DETAIL
CORE END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF HOLES
SEE DETAIL "A"
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL D
DETAIL E
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLE
DETAIL
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED AFTER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
E EXT COL REF LINE

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32T1P - 57'-7"	ST204
BRIDGING TRUSSES	T4	4	24T11 - 19'-11"	ST2[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST401
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-0 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
⚠1				
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-8"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x5/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x5/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST400
	P2	8	4 1/2" x .30" x 0'-9"	ST400
	P3	8	4 1/2" x .30" x 1'-0"	ST400

NO	DATE	REVISION	BY
⚠2	5-27-69	AS NOTED	RJ
	[illegible]	[illegible]	

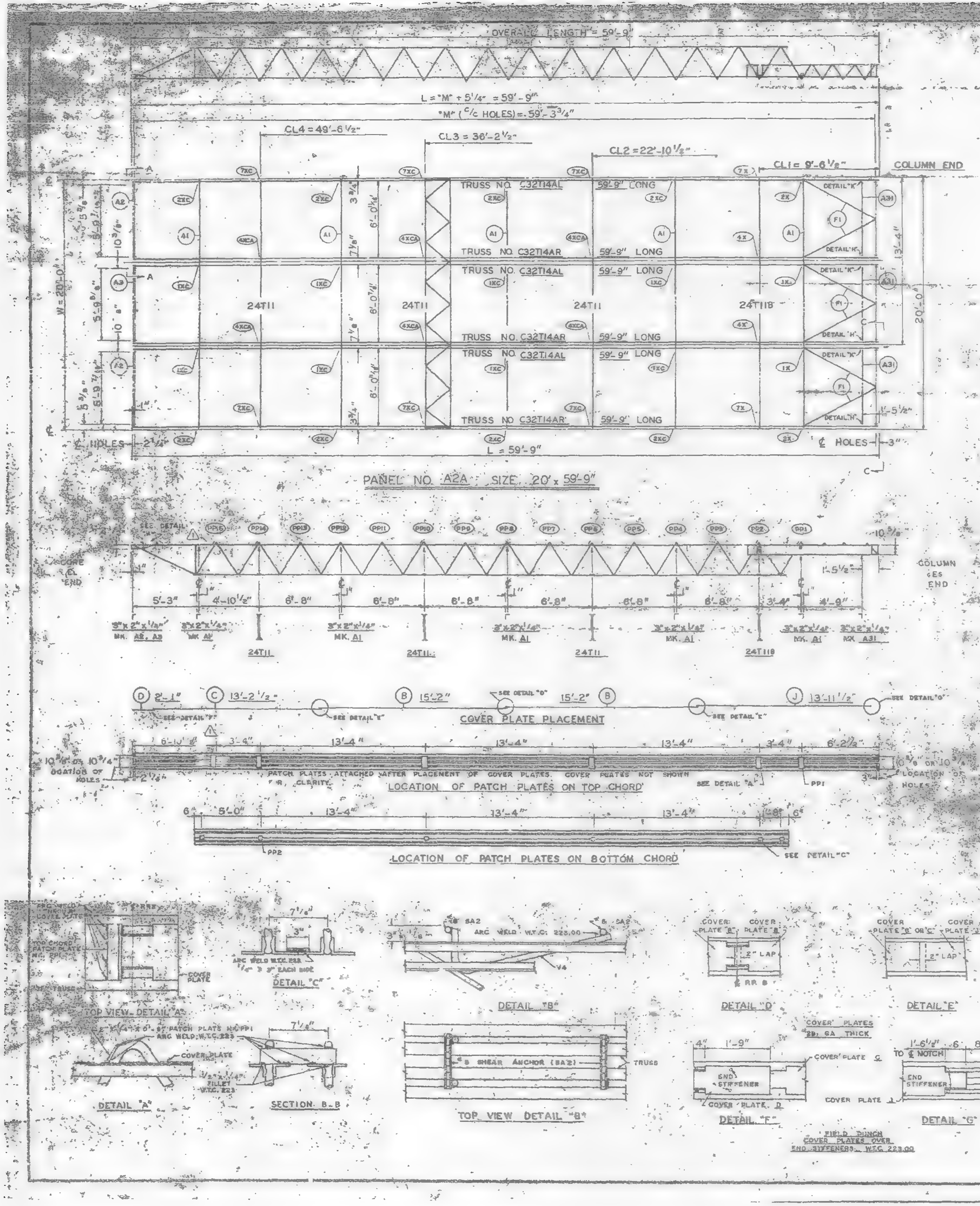
REF DRWG
7-AB4-3 — 9-13-68
7-AB4-15 & 16 — 7-22-68
7-AB4-41 — 7-22-68
⚠2 SA-124 — 1-6-69
7-AB3-2 — 1-3-68
7-AB1-2 — 7-22-68
7-AB2-6 — 7-22-68

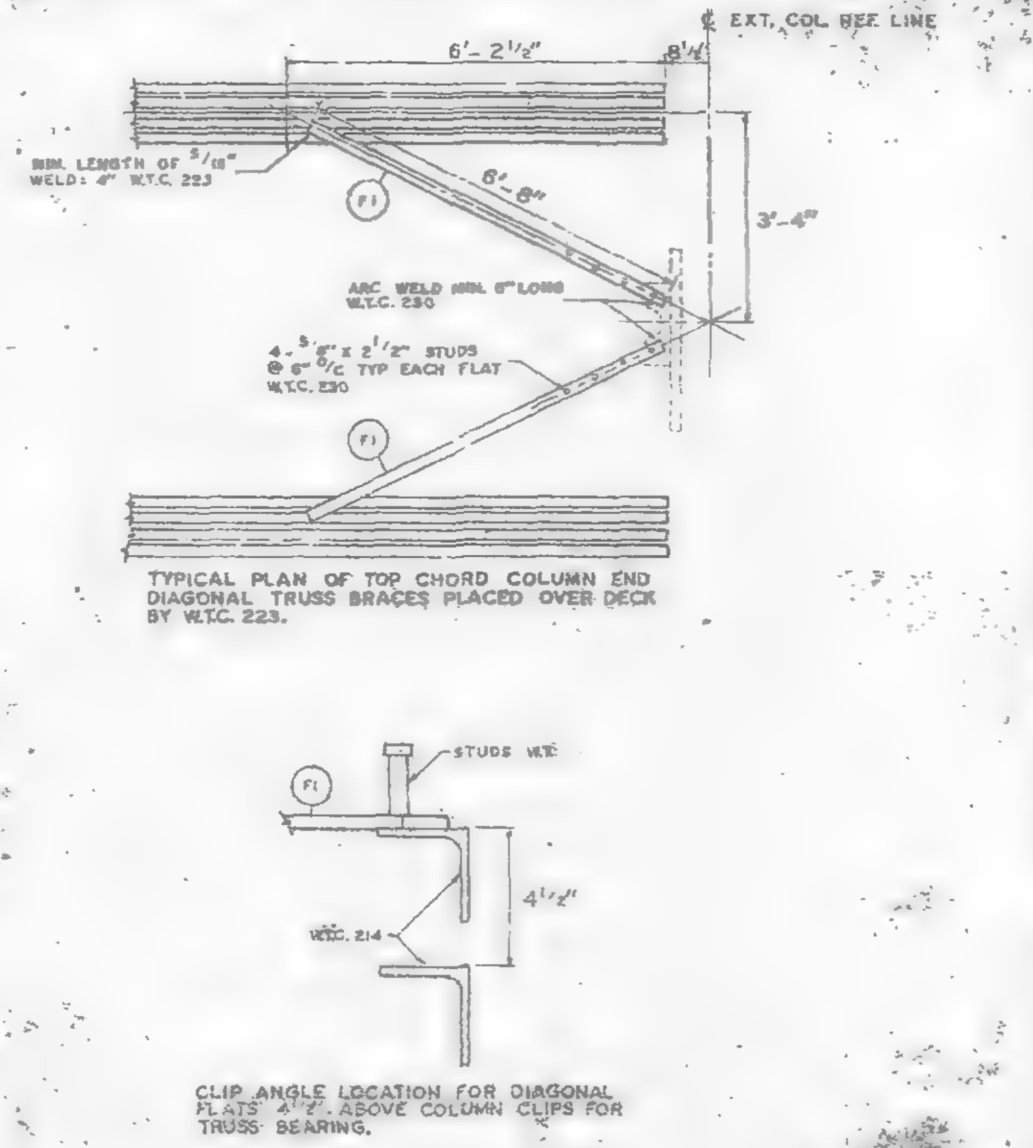
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74(N)
PANEL A1P - 20'-0" x 57'-7"
BLDG. B FLOORS 74 (WEST) ⚠2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON ILLINOIS		DESIGN DRAWING NO. 7-AB3-3	PLATE
APPROVED FOR FABRICATION BY [illegible]	DATE [illegible]	DRAWN BY [illegible] DATE SEP 24 1968	
APPROVED FOR FABRICATION [illegible]	DATE	CHECKED BY J. CHURA DATE OCT 11 1968	IN CHARGE OF [illegible]
[illegible]		FABRICATION CONT. NO. WTC 221	SHEET [illegible]

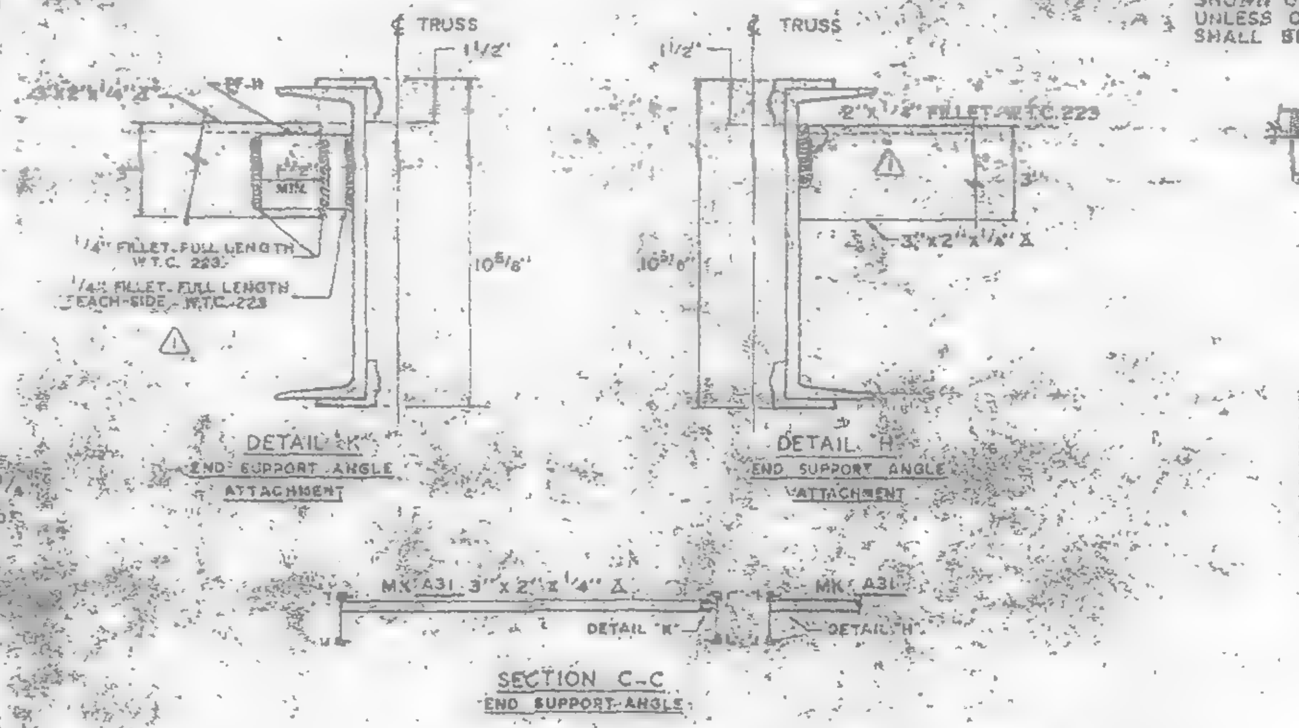

OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
DETAIL "K"
DETAIL "H"
W = 20'-0"
20'-0"
℄ HOLES
L = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COLUMN CL END
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
PP1
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "A"
SEE DETAIL "C"
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
ARC WELD W.T.C. 223.00
DETAIL "D"
DETAIL "E"
COVER PLATE "B"
COVER PLATE "C" OR "E"
2" LAP
COVER PLATES 26 GA THICK
END STIFFENER
COVER PLATE D
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS. W.T.C. 223.00


6'-2 1/2"
EXT. COL. BEE LINE
MIN. LENGTH OF 3/16" WELD: 4" W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4-3/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C.
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL

MATERIAL	MK.	PCS.	SIZE	REF. DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	ST 211
	T11B	1	24T11B x 19'-11"	ST 211B
3" x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
	A3	1	3"x2"x1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x2"x1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 5/8" x 0'-3"	ST 400
COVER PLATES	B	8	9" x .0135" x 15'-[illegible]	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
	D	4	9" x .0135" x 2'-1"	ST 303
	J	4	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-[illegible]	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400
	P9	8	3" x 1/2" x 1'-2"	ST 409

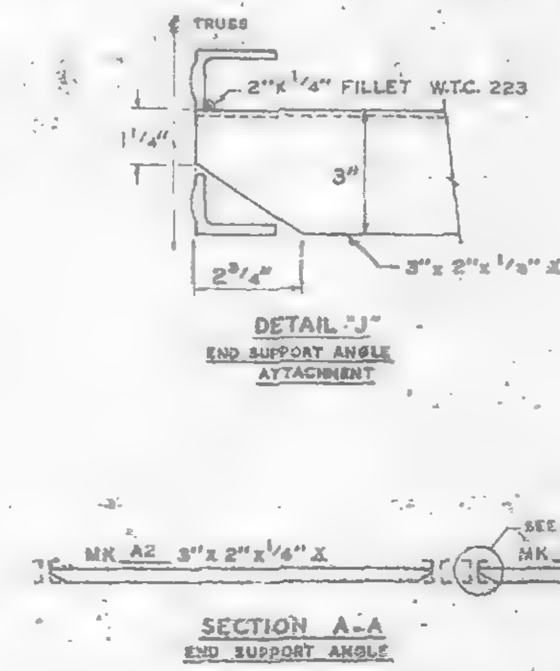
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.


TRUSS
1 1/2"
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE W.T.C. 223
10 5/8"
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT
1/4" x 1/2" FILLET W.T.C. 223
3"x2"x1/4" A
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
DETAIL "K"
DETAIL "H"
SECTION C-C
END SUPPORT ANGLE

NO.	DATE	REVISION	BY
2	7-1-69	AS NOTED	G.D.
1	2-4-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB3-25	10-4-68
7-AB3-24	8-15-68
7-AB1-13	10-4-68
7-AB2-5	7-22-68
7-AB2-15	10-4-68


TRUSS
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4" ∠
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3
SECTION A-A
END SUPPORT ANGLE

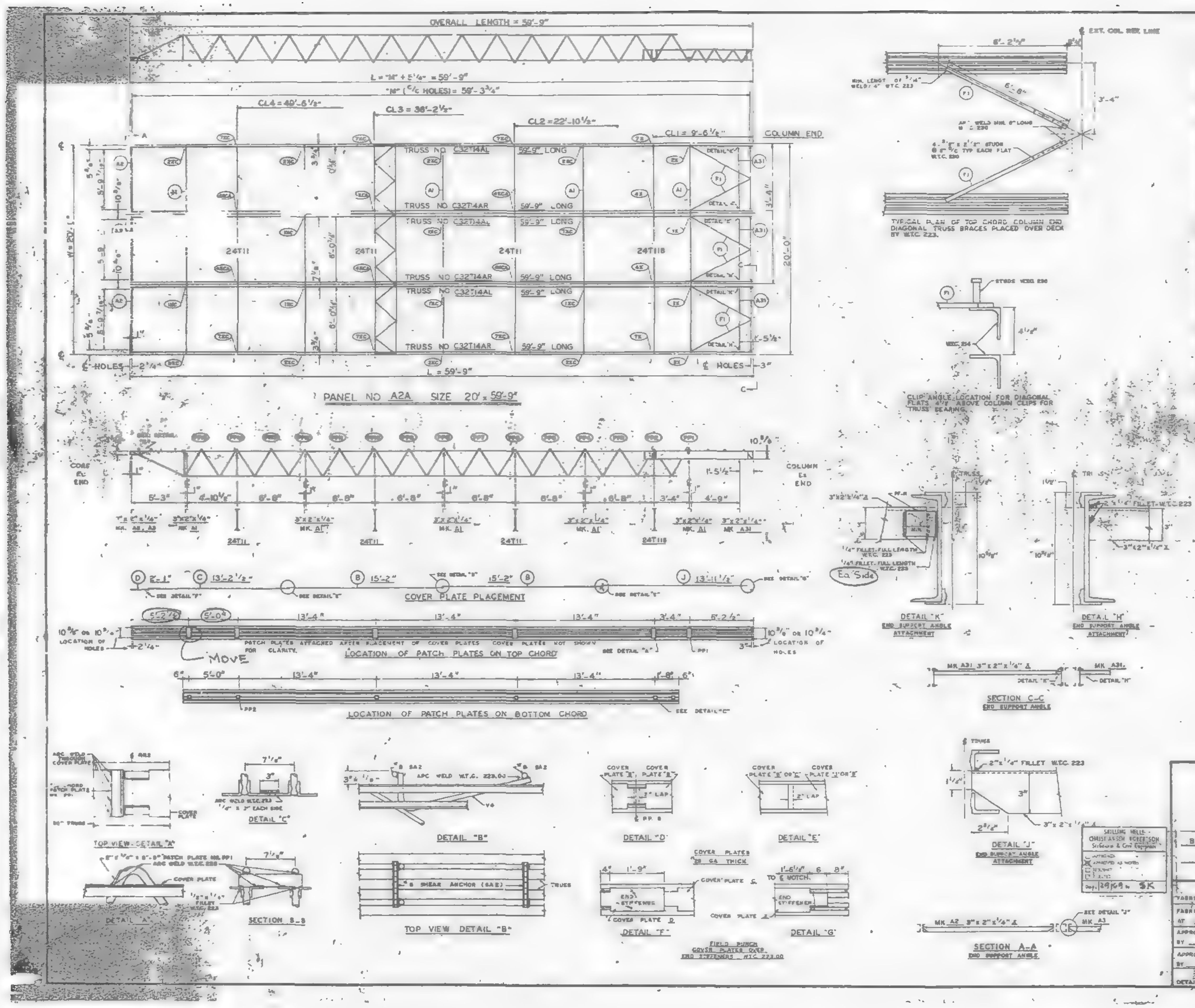
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) 1

20' x 59'-9"

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
APPROVED FOR FABRICATION BY James [illegible] FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY [illegible] DATE DEC. 5, 1968
IN CHARGE [illegible]
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET FD-A2A


OVERALL LENGTH = 59'-9"
L = "H" + 5 1/4" = 59'-9"
"H" (C/C HOLES) = 59'-3 3/4"
CL4 = 40'-6 1/2"
CL3 = 38'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T11
24T11B
L = 59'-9"
PANEL NO. A2A SIZE 20' x 59'-9"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
MOVE
Ea. Side
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
SKILLING HELLE CHRISTIANSEN ROBERTSON
SK

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T4AL	3	C32T14AL x 59'-9"	ST 214AL
	T4AR	3	C32T14AR x 59'-9"	ST 214AR
BRIDGING TRUSSES	T1	3	24T11 x 19-11"	ST 211
	T1B	1	24T11B x 19-11"	ST 211B
3" x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 5/16"	ST 403
	A3	1	3"x2"x1/4"x5'-1 3/4"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	[illegible]	3	[illegible]	[illegible]
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 3'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	6	9"x 0.135" x 15'-2"	ST 303
	C	4	9"x 0.135" x 13'-2 1/8"	ST 303
	D	4	9"x 0.135" x 1"	ST 303
	J	4	9"x 0.135" x 13'-11 1/8"	ST 304
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-4"	ST 400
#6 SHEAR ANCHOR	SA2	8	#6 REBAR x 0' 8"	ST 400
CONNECTION BAR	CB	10	1" ø x 1' 3"	ST 400
	CB	2	1" ø x 1'-7	
CONNECTION PLATES	P1	8	3 1/2" x 1/2" x 0'-6 1/2"	ST 400
	P2	18	4 1/2" x .39" x 0'-4"	ST 400
	P3	8	4 1/2" x .39" x 0'-0"	ST 400
	P4	8	3" x 1/2" x 1'-2"	ST 400

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS.
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 228.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

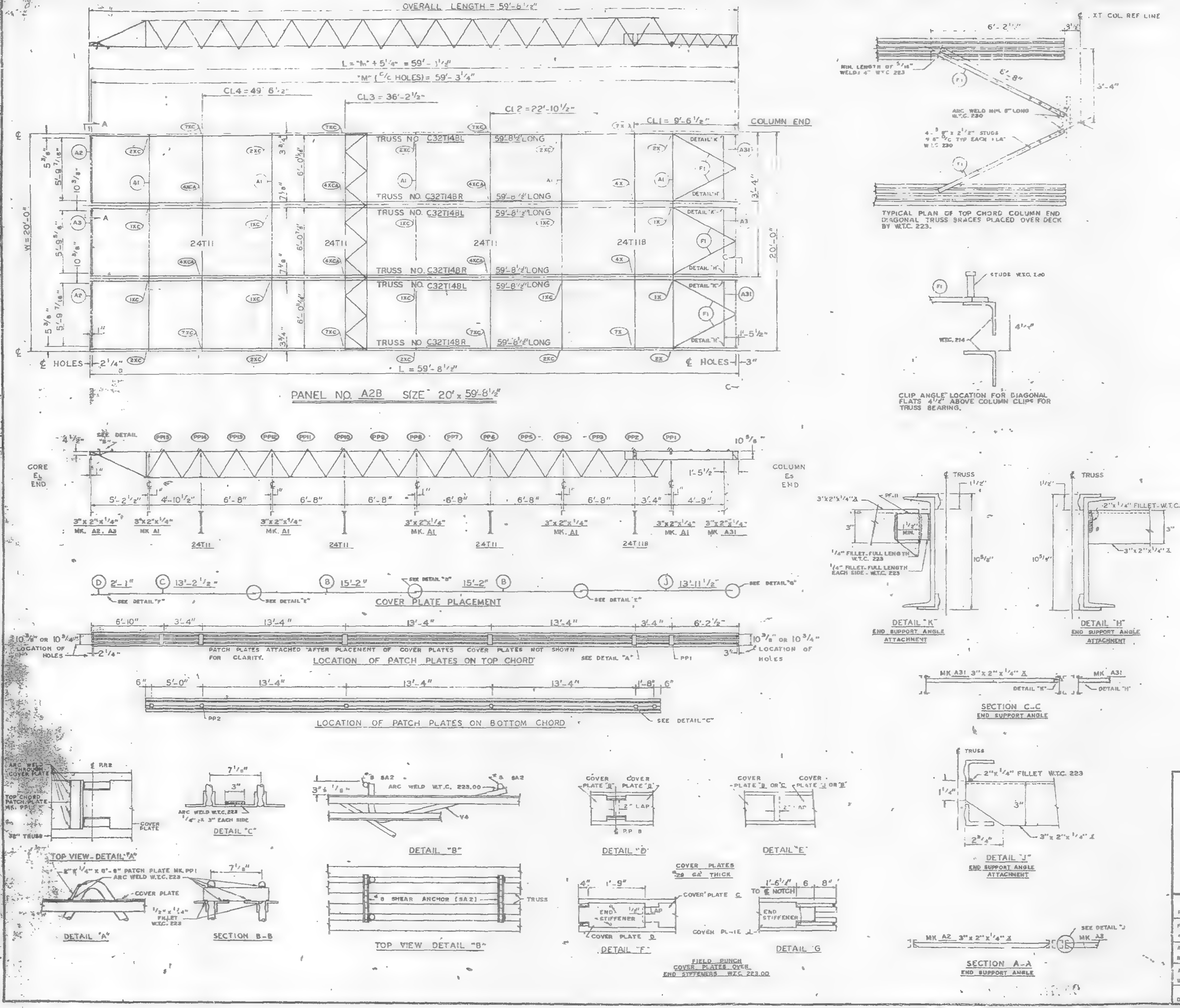
REF. DRWG.

7-A83-25	10-4-68
7-A83-24	8-15-68
7-A81-13	10-4-68
7-A82-5	7-22-68
7-A82 15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25, ~~60 & 92~~ (NORTH & SOUTH), 59 (NORTH)
PANEL A2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE DEC. 5, 1968
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A2A


OVERALL LENGTH = 59'-6 1/2"
L = "M" + 5 1/8" = 59'-1 1/2"
"M" (C/C HOLES) = 59'-3 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14BL 59'-8 1/2" LONG
TRUSS NO. C32T14BR 59'-8 1/2" LONG
24T11
24T11B
W = 20'-0"
20'-0"
3'-4"
1'-5 1/2"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8 1/2"
PANEL NO. A2B SIZE 20' x 59'-8 1/2"
CORE E1 END
COLUMN E5 END
5'-2 1/2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
10 5/8" OR 10 3/4" LOCATION OF HOLES
6'-10"
13'-4"
6'-2 1/2"
SEE DETAIL "A"
PP1
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
5'-0"
1'-8"
6"
TOP VIEW - DETAIL "A"
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS
DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "C"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
SECTION B-B
1/2" x 1/4" FILLET W.T.C. 223
DETAIL "B"
ARC WELD W.T.C. 223.00
#8 SA2
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
DETAIL "D"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
PP 8
DETAIL "E"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
COVER PLATES .0135" THICK
DETAIL "F"
END STIFFENER
COVER PLATE C
COVER PLATE D
DETAIL "G"
TO ℄ NOTCH
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
EXT. COL. REF. LINE
6'-2 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELDS 4" W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4-3/8" x 2 1/2" STUDS @ 8" C/C TYP. EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT
3"x2"x1/4" ∠
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
3"x2"x1/4" ∠
SECTION C-C
END SUPPORT ANGLE
MK A31 3"x2"x1/4" ∠
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4" ∠
SECTION A-A
END SUPPORT ANGLE
MK A2 3"x2"x1/4" ∠
MK A3
SEE DETAIL "J"

REQUIRED MAT[illegible]				REF
MATERIAL	[illegible]	[illegible]	[illegible]	DRWG
FLOOR TRUSSES	T14BL	[illegible]	[illegible] 59'-8 1/2"	ST 2148L
	T14BR	[illegible]	[illegible] 59'-8 1/2"	ST 2148L
BRIDGING TRUSSES	[illegible]	[illegible]	[illegible]	BT 211
			[illegible]	BT 218
3"x2"x1/4" ANGLES	A[illegible]	[illegible]	[illegible] 9'-11"	ST 403
	A[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 404
	[illegible]	[illegible]	[illegible]	ST 410
CLOSURE PLATES	[illegible]	[illegible]	[illegible]	ST 4[illegible]
DIAGONAL FLATS	F1	6	1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
	D	[illegible]	9" x .0135" x 2'-1"	ST 303
	J	4	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400
	P8	8	3" x 1/2" x 1'-2"	ST 409

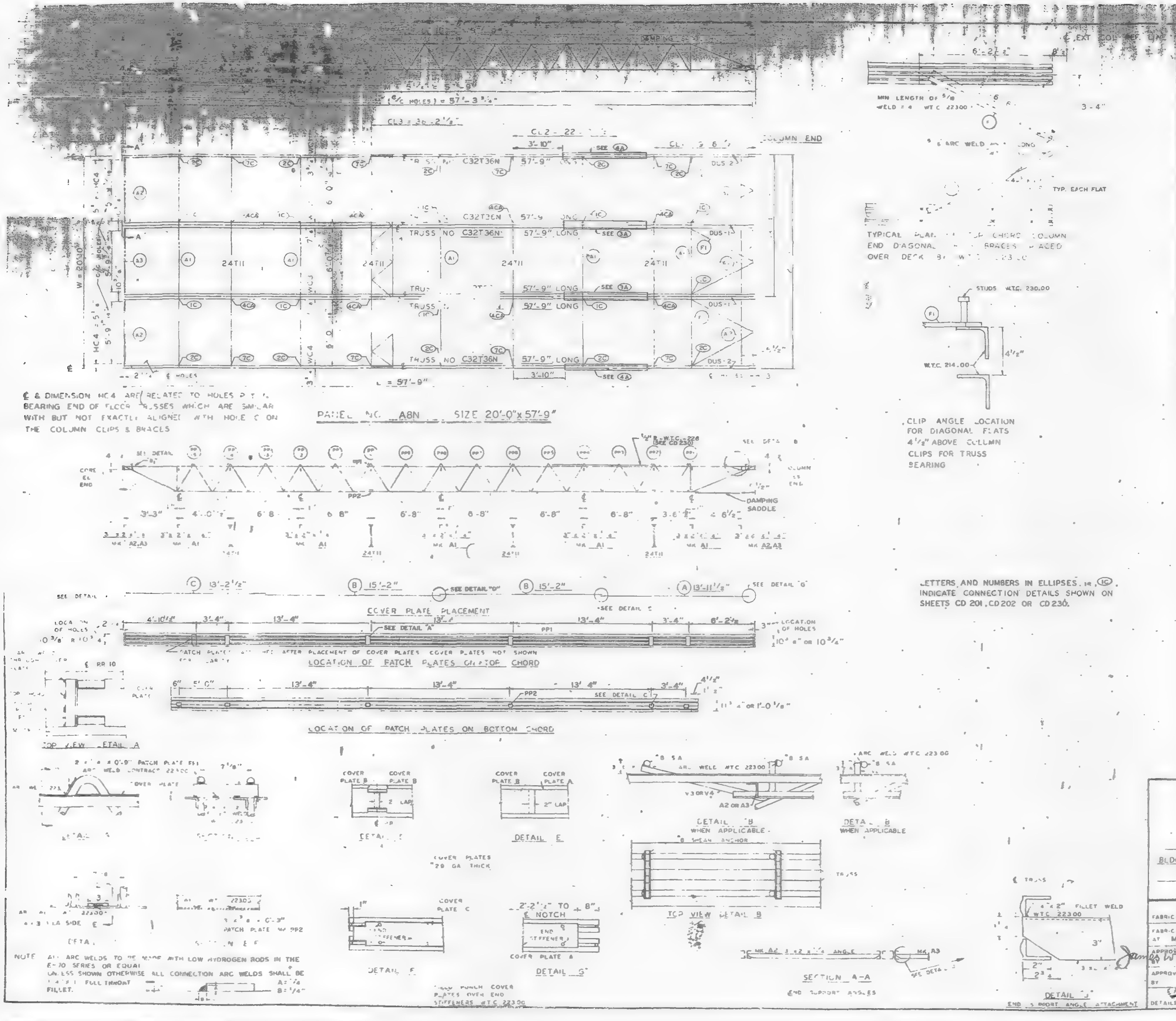
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY

REF DRWG.		
	7-AB3-25	10-4-68
	7-AB3-24	8-15-68
	7-AB1-13	10-4-68
	7-AB2-5	7-22-68
	7-AB2-15	10-4-68

FLOOR [illegible] DETAILS
A[illegible] TRA[illegible] [illegible]ER N.Y.C.
[illegible] NEW YORK AUTHORITY
BLDG. A FLOORS 92 (NORTH)
PANEL A2[illegible] 20' x 59'-8 1/2"
BLDG B FLOORS 92 (WEST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO
PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 9-4-69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATION DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A. E. WEBER
LACLEDE S[illegible]
FABRICATION CONT NO 221
SHEET NO FP A2B



PANEL NO. A8N SIZE 20'-0" x 57'-9"
TRUSS NO C32T36N 57'-9" LONG
24T11
COLUMN END
L = 57'-9"
W = 20'-0"
SEE 4A
SEE 3A
DUS-1
DUS-2
DAMPING SADDLE
COVER PLATE PLACEMENT
(C) 13'-2 1/2"
(B) 15'-2"
(B) 15'-2"
(A) 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "G"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PP1
PP2
SEE DETAIL "A"
SEE DETAIL "C"
TOP VIEW DETAIL A
DETAIL E
DETAIL F
DETAIL G
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA THICK
2" LAP
END STIFFENER
2'-2 1/2" TO 8" E NOTCH
MIN LENGTH OF 5/8 WELD = 4 WTC 22300
STUDS WTC 230.00
WTC 214.00
4 1/2"
3"
1/4 x 2" FILLET WELD WTC 22300

℄ & DIMENSION HC4 ARE RELATED TO HOLES AT THE BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN AT TOP CHORD COLUMN END DIAGONAL BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES I.E. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202 OR CD 230.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T36N	6	32T36 x 57'-9"	
BRIDGING TRUSSES	T11	4	24T11 x 19'-11"	
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4 x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11"	ST 403
	A3	2	3"x2"x1/4"x 5'-11"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 0'-8"	ST 402
PATCH PLATES	PP1	4	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-[illegible]	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	[illegible]	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

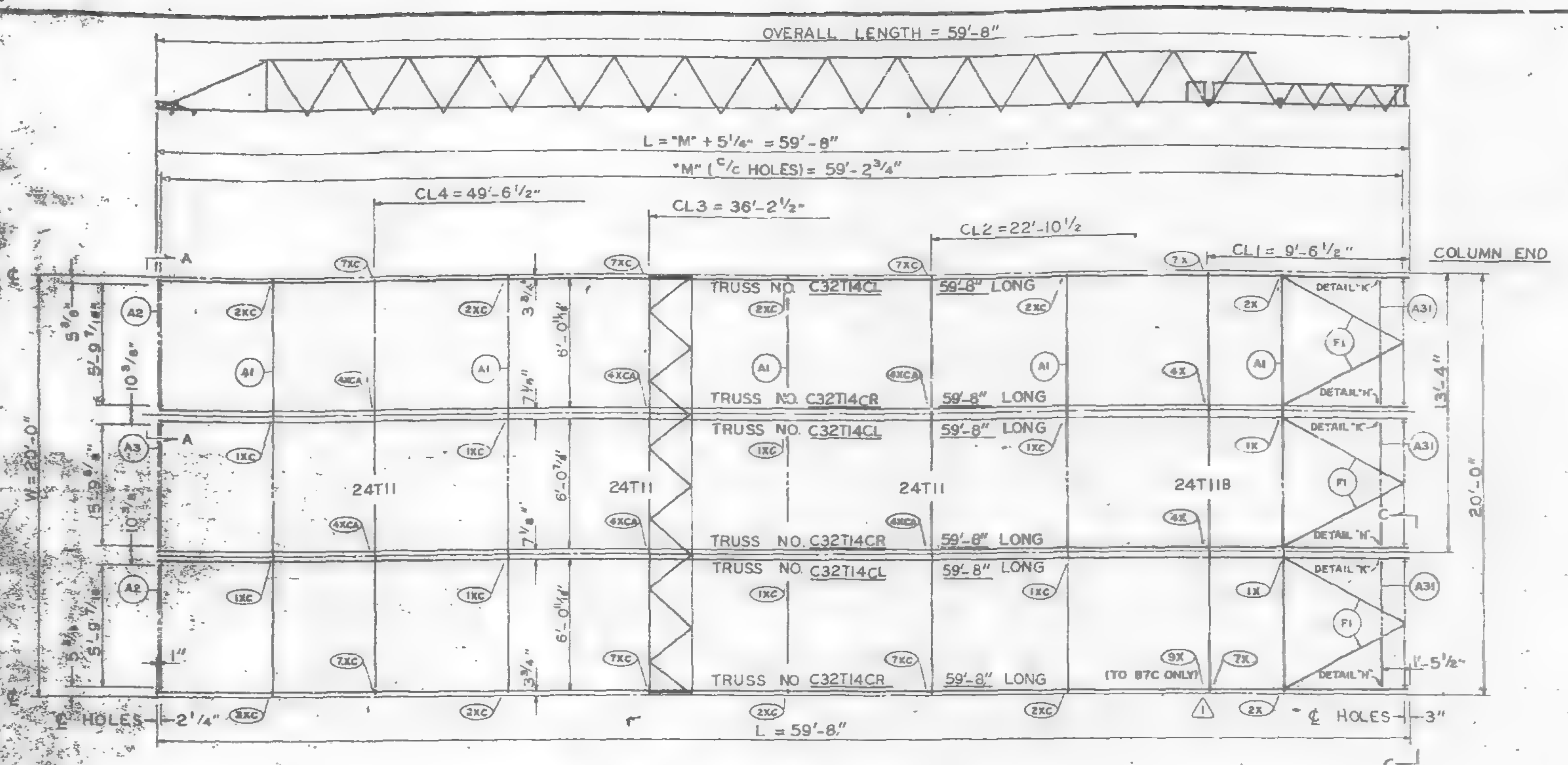
REF DRWG

7-AB4-3	10-15-68
7-AB4-15,16,39 & 41	7-22-68
7-AB4-3.1	1-3-68
SA 124	1-6-68
7-AB3-53	1-6-69
7-AB1-32	1-6-69
7-AB2-6	7-22-68

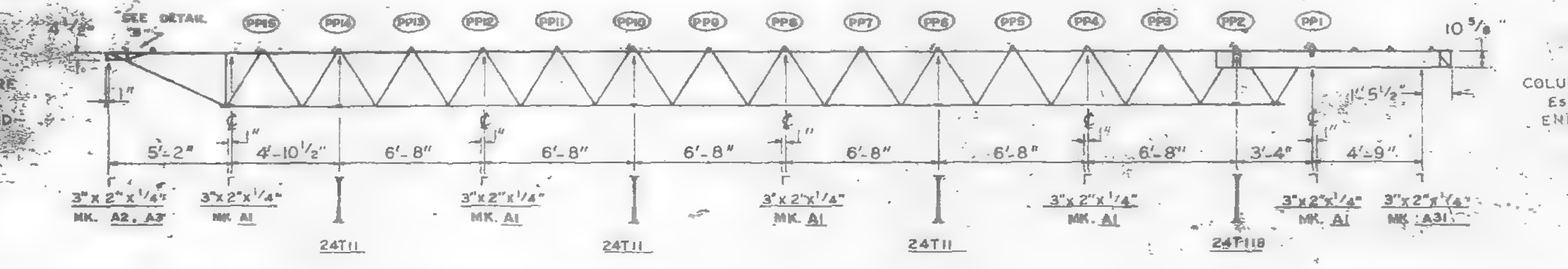
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

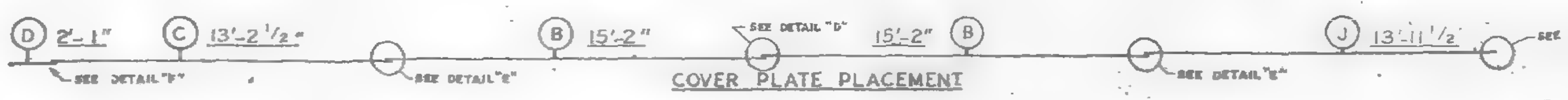
BLDG A FLOORS 44 (SOUTH ONLY)
PANEL A8N 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 AB3-53 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 4/22/69
DRAWN BY [illegible] DATE APRIL 1, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAIR DATE APRIL 1, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A. WEBER
FABRICATION CONT NO WTC 221
SHEET NO FP A8N

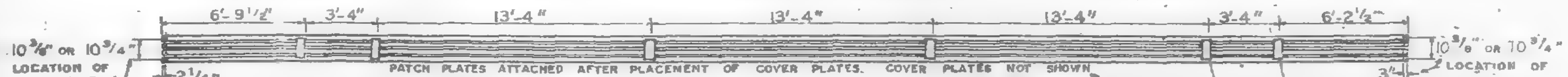

OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T11
24T118
DETAIL "K"
DETAIL "H"
A1
A2
A3
A31
F1
7XC
2XC
1XC
4XCA
4X
2X
1X
7X
9X
(TO B7C ONLY)
W = 20'-0"
13'-4"
20'-0"
1'-5 1/2"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8"
A
C

PANEL NO. A2C SIZE 20' x 59'-8"


SEE DETAIL "B"
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
10 5/8"
CORE ℄ END
COLUMN ℄ END
1'-5 1/2"
5'-2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
24T11
24T118

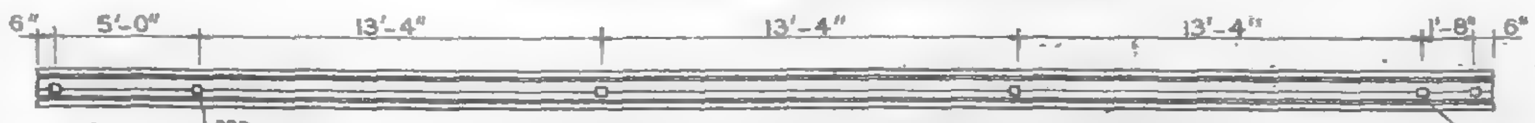

D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"

COVER PLATE PLACEMENT

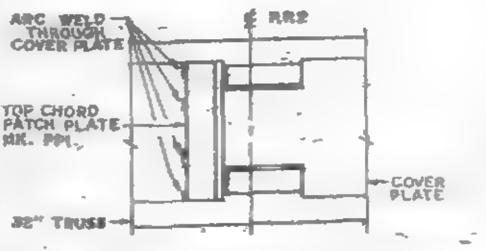

6'-9 1/2"
3'-4"
13'-4"
6'-2 1/2"
10 5/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
3"
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

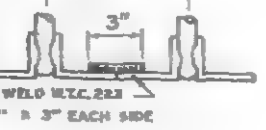
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
1'-8"
6"
PP2
SEE DETAIL "C"

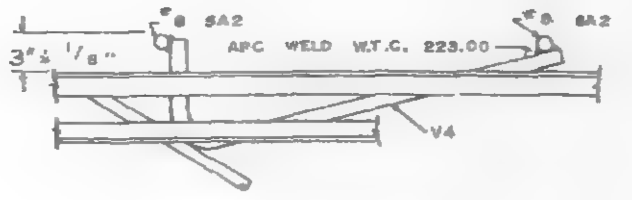
LOCATION OF PATCH PLATES ON BOTTOM CHORD


ARC WELD THROUGH COVER PLATE
℄ PP2
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS

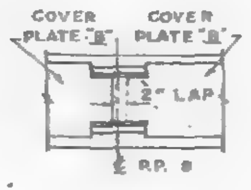
TOP VIEW - DETAIL "A"


7 1/8"
3"
ARC WELD W.T.C. 223
1/4" x 3" EACH SIDE

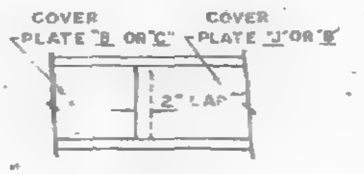
DETAIL "C"


#8 SA2
ARC WELD W.T.C. 223.00
3" x 1/8"
V4

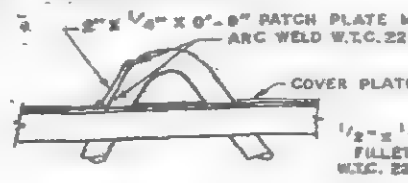
DETAIL "B"


COVER PLATE "B"
COVER PLATE "B"
2" LAP
℄ PP. 8

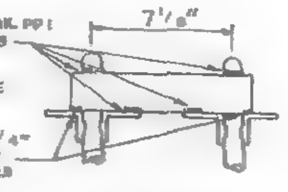
DETAIL "D"


COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" LAP

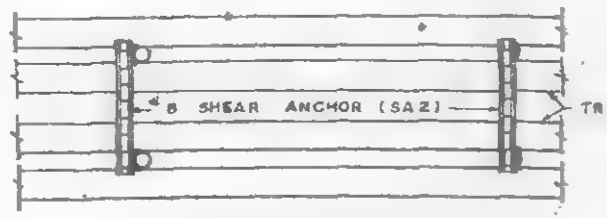
DETAIL "E"


2" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"

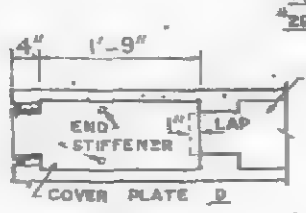

7 1/8"
1/2" x 1/4" FILLET W.T.C. 223

SECTION B-B.

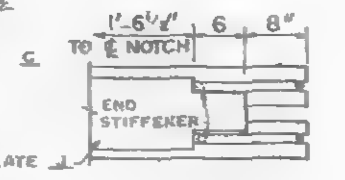

#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

COVER PLATES #20 GA THICK

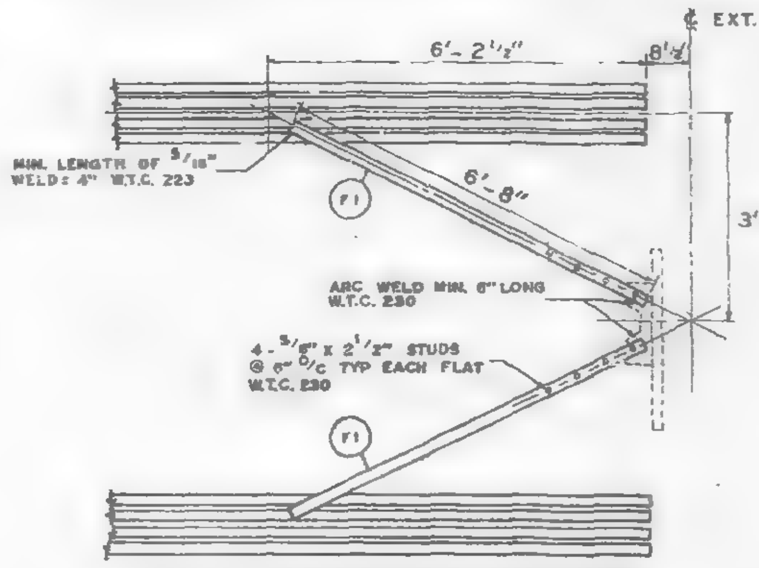

4"
1'-9"
COVER PLATE C
END STIFFENER
1" LAP
COVER PLATE D

DETAIL "F"

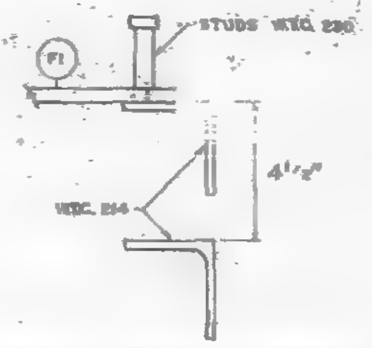

1'-6 1/2" TO ℄ NOTCH
6
8"
END STIFFENER
COVER PLATE J

DETAIL "G"

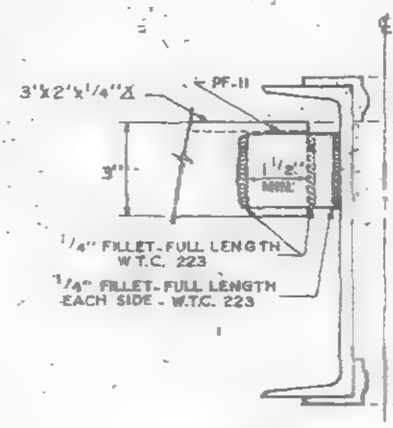
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00


℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
F1
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230

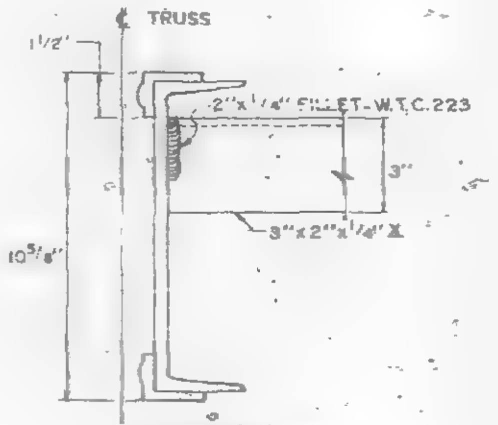
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.


F1
STUDS W.T.C. 230
4 1/2"
W.T.C. 214

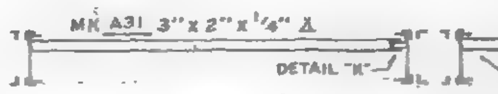
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.


℄ TRUSS
1 1/2"
3"x2"x1/4" ∠
PF-11
3"
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

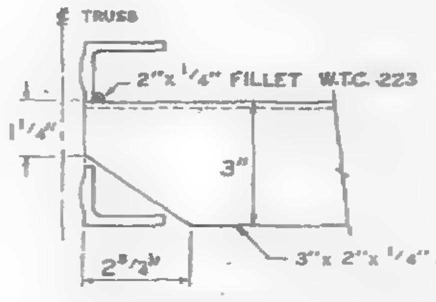
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT


℄ TRUSS
1 1/2"
2"x1/4" FILLET - W.T.C. 223
3"
3"x2"x1/4" ∠
10 5/8"

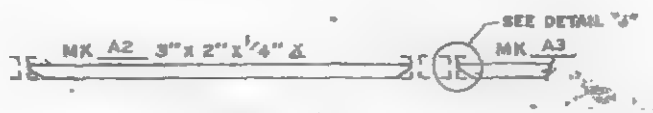
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT


MK A31 3"x2"x1/4" ∠
DETAIL "K"
MK A31
DETAIL "H"

SECTION C-C
END SUPPORT ANGLE


℄ TRUSS
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4" ∠

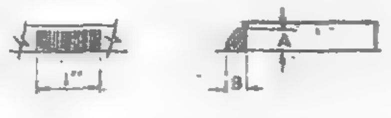
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK.	PCS.	SIZE	DRWG
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	ST 211
	T118	1	24T118 x 19'-11"	ST 218
3"x 2"x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	1	3"x2"x1/4"x5'-11 3/4"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2"	ST 303
	D	4	9" x .0135" x 2'-1"	ST 303
	J	4	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" Ø x 1'-3"	ST 400
CONNECTION PLATES ⚠	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	8/7*	4 1/2" x .39" x 0'-9"	ST 400
	P3	8/7*	4 1/2" x .39" x 1'-0"	ST 400
	P9	8	3" x 1/2" x 1'-2"	ST 409
	P10	1*	4 1/2" x .39" x 5"	ST 409
	P11	1*	3" x 1/4" x 8"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.



⚠ MATERIAL MARKED (*) IS FOR BLDG. B-EAST PANEL ONLY.

NO.	DATE	REVISION	BY
⚠	6-13-69	AS NOTED	G.D.C.

REF. DRWG.

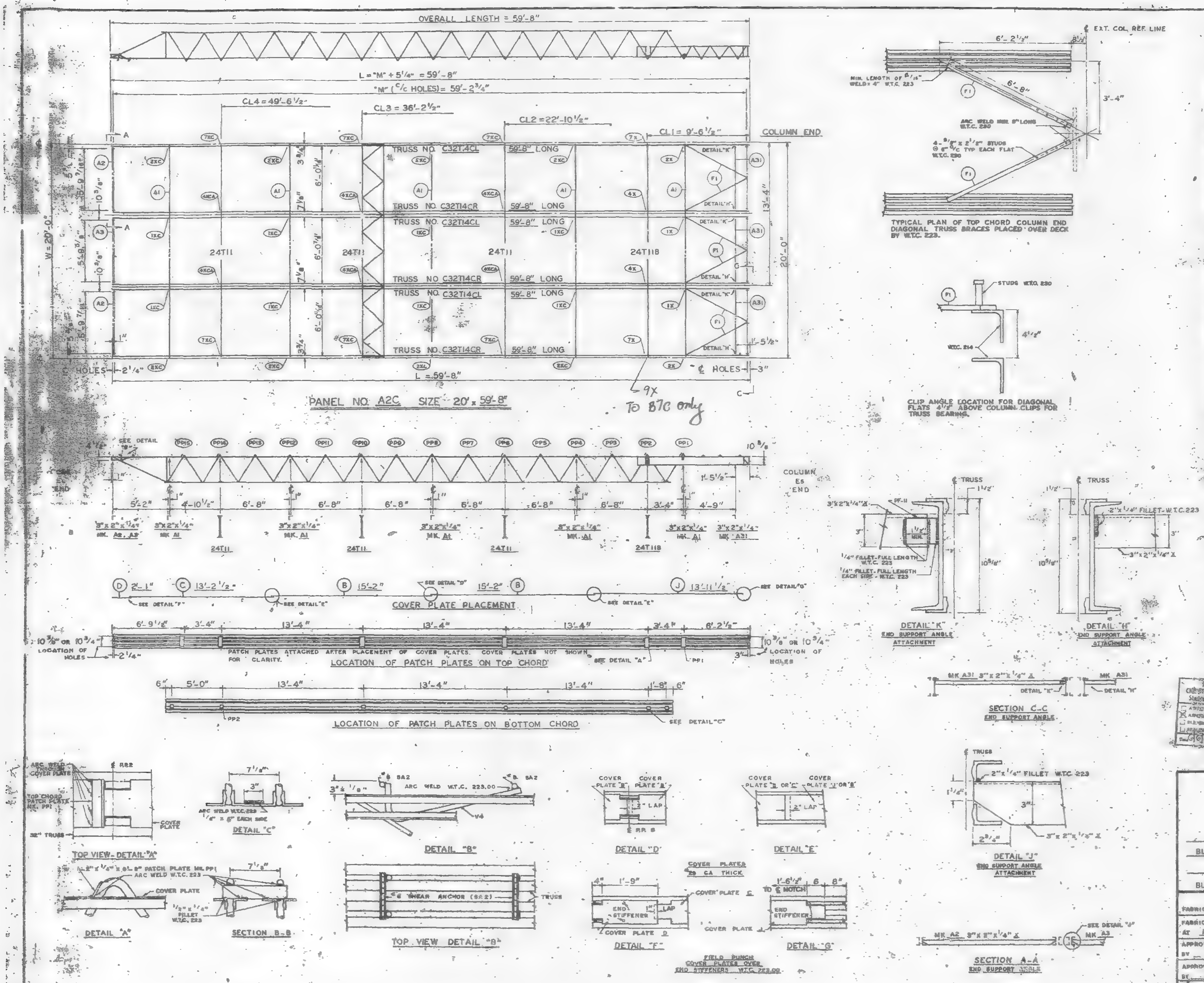
7-A83-25	10-4-68
7-A83-24	8-15-68
7-A81-13	10-4-68
7-A82-5	7-22-68
7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL A2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

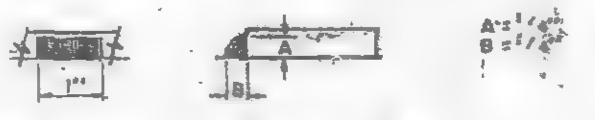
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO.	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 7/28/69	DRAWN BY Luk DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 26, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP A2C


OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T11
24T11
24T11
24T118
DETAIL "K"
DETAIL "H"
W = 20'-0"
13'-4"
20'-0"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8"
9X
TO B7C only
PANEL NO. A2C SIZE 20' x 59'-8"
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
5'-2" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
1'-5 1/2"
COLUMN E's END
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-9 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES 2 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
PP1
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN. 5" LONG W.T.C. 230
4-3/4" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ TRUSS
3"x2"x1/4" ∠
PF-11
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
DETAIL "K"
DETAIL "H"
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
3"x2"x1/2" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3
SECTION A-A END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2" x 1/4" x 0'-8" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "A"
1/2" x 1/4" FILLET W.T.C. 223
SECTION B-B
7 1/8"
3"
ARC WELD W.T.C. 223 1" x 5" EACH SIDE
DETAIL "C"
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" LAP
DETAIL "E"
COVER PLATES 29 GA THICK
4" 1'-9"
END STIFFENER
COVER PLATE C
COVER PLATE D
DETAIL "F"
1'-6 1/2" 6 8"
TO ℄ NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CR
BRIDGING TRUSSES	T11	3	24T11 x 19'-11"	BT 211
	T118	1	24T118 x 19'-11"	BT 2118
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/8" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4" x 0'-8"	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	8	9"x .0135" x 15'-2"	ST 303
	C	4	9"x .0135" x 13'-2 1/2"	ST 303
	D	4	9"x .0135" x 2'-1"	ST 303
	J	4	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	10	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	~~8~~ 7*	4 1/2" x .39" x 0'-9"	ST 400
	P3	~~8~~ 7*	4 1/2" x .39" x 1'-0"	ST 400
	P9	8	3"x 1/2"x 1'-2"	ST 409
	P10	1*		

P11 1*

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



Material marked * are for Bldg B East Panel only

NO.	DATE	REVISION	BY

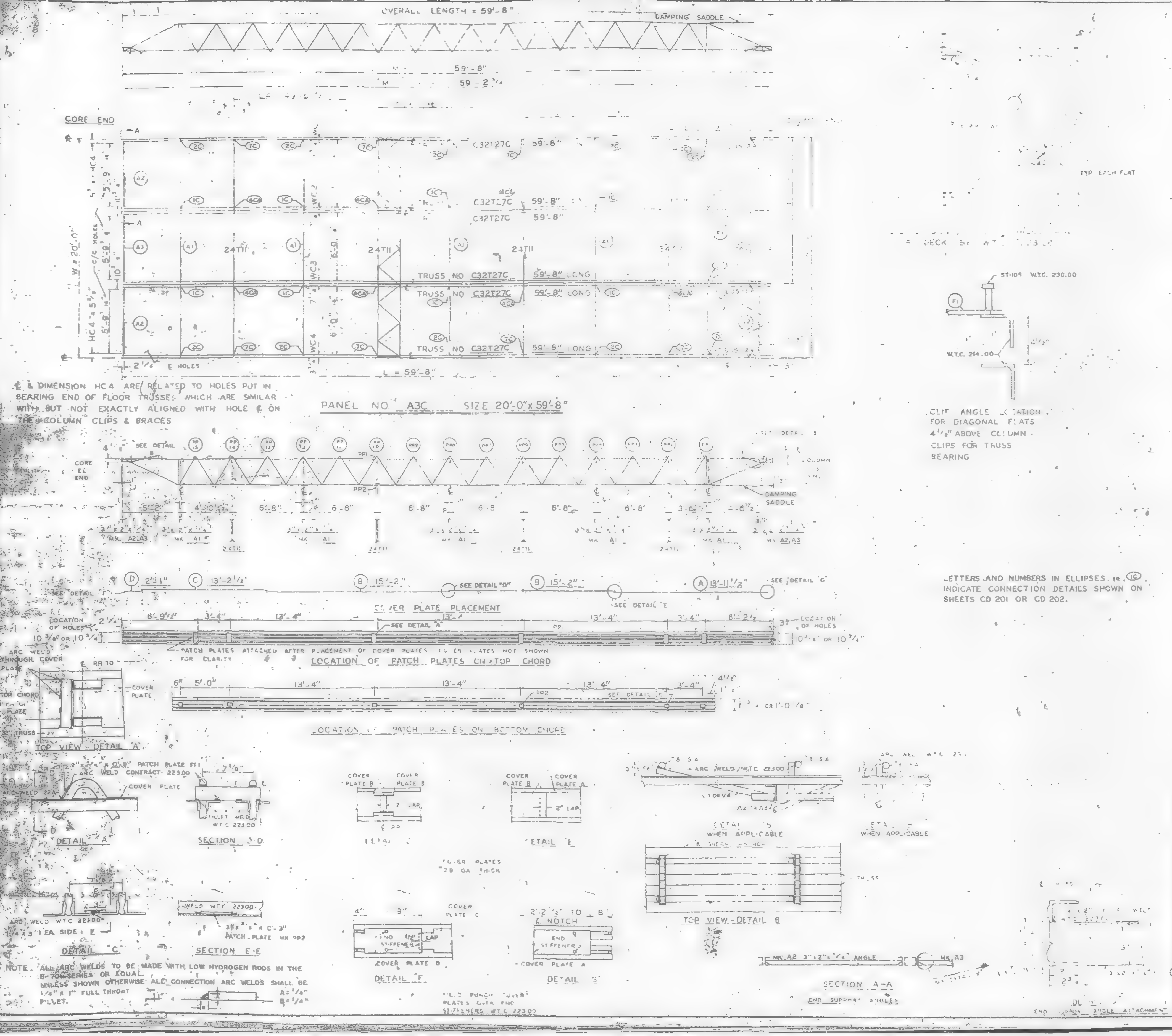
[illegible] - HELLE
[illegible] - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ [illegible]
☐ [illegible]
Date 6/6/69 By SK

REF DRWG.		
	7-AB3-25	10-4-68
	7-AB3-24	8-15-68
	7-AB1-13	10-4-68
	7-AB2-5	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL A2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY Lurk
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE
CHECKED BY T.R. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP A2C


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
59'-8"
59'-2 1/4
CORE END
C32T27C 59'-8"
C32T27C 59'-8"
C32T27C 59'-8"
W = 20'-0"
HC4
WC2
WC3
WC4
24T11
TRUSS NO C32T27C 59'-8" LONG
TRUSS NO C32T27C 59'-8" LONG
TRUSS NO C32T27C 59'-8" LONG
2 1/4 ℄ HOLES
L = 59'-8"
SEE DETAIL B
CORE ℄ END
PP1
PP2
COLUMN
DAMPING SADDLE
5'-2"
4'-10 1/2
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
4'-6 1/2
MK A2,A3
MK A1
MK A1
MK A1
MK A1
MK A2,A3
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
SEE DETAIL E
A 13'-11 1/2"
SEE DETAIL "G"
SEE DETAIL
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
6'-9 1/4"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
SEE DETAIL "A"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13' 4"
3'-4"
4 1/2
PP2
SEE DETAIL "C"
OR 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
PP 10
COVER PLATE
TOP CHORD
PLATE
TRUSS
TOP VIEW - DETAIL "A"
2"x1/8"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL "A"
FILLET WELD WTC 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
COVER PLATES 28 GA THICK
ARC WELD WTC 22300
1/4"x3" 1 EA SIDE
DETAIL "C"
WELD WTC 22300
3/8"x"x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
4"
3"
COVER PLATE C
END STIFFENER
LAP
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
PLUG PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
ARC WELD WTC 22300
A2 A3
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
TRUSS
TOP VIEW - DETAIL B
MK A2 3"x2"x1/4" ANGLE
MK A3
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
DECK
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
TYP EACH FLAT
A = 1/4"
B = 1/4"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL NO. A3C SIZE 20'-0"x59'-8"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

MATERIAL	MK	PCS	SIZE	REF. DRWG
	T27C	6	C32T27C 59'-8"	ST227C
		4	24T	
	A1	5	3 x 2 x 4 x 5'-11"	[illegible]
	A2	4	[illegible] 4 x 5'-11 9/16	[illegible]
	A3	2	[illegible] 3/4"	ST 4[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	PP1	24	[illegible]	ST 400
PATCH PLATES	PP2	24	3 [illegible]	ST 4[illegible]
COVER PLATES	A	4	9 x 0135 x 13'-11 1/2"	ST303
	B	8	9 x 0135 x 15'-2"	ST303
	C	4	9 x 0135 x 13'-2 1/2"	ST303
	D	4	9 x 0135 x 2'-1"	ST303
ANGLE CLIPS	C1	24	2 x 2 x 1/4 x 0'-6	ST400
#6 SHEAR ANCHOR	SA2	16	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 2"x3 1/2"x3/8"x3'-5 7/8"	ST298
CONNECTION BAR	CB1	2	[illegible] x [illegible] 3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 3 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO	DATE	REVISION	BY

AB4-3	10-15-68
AB4 5 & 16	7-22-68
AB4-41	7-22-68
SA 24	1-6-69
AB3 42	1-6-69
AB 24	1-6-69
AB2 5	7-22-68

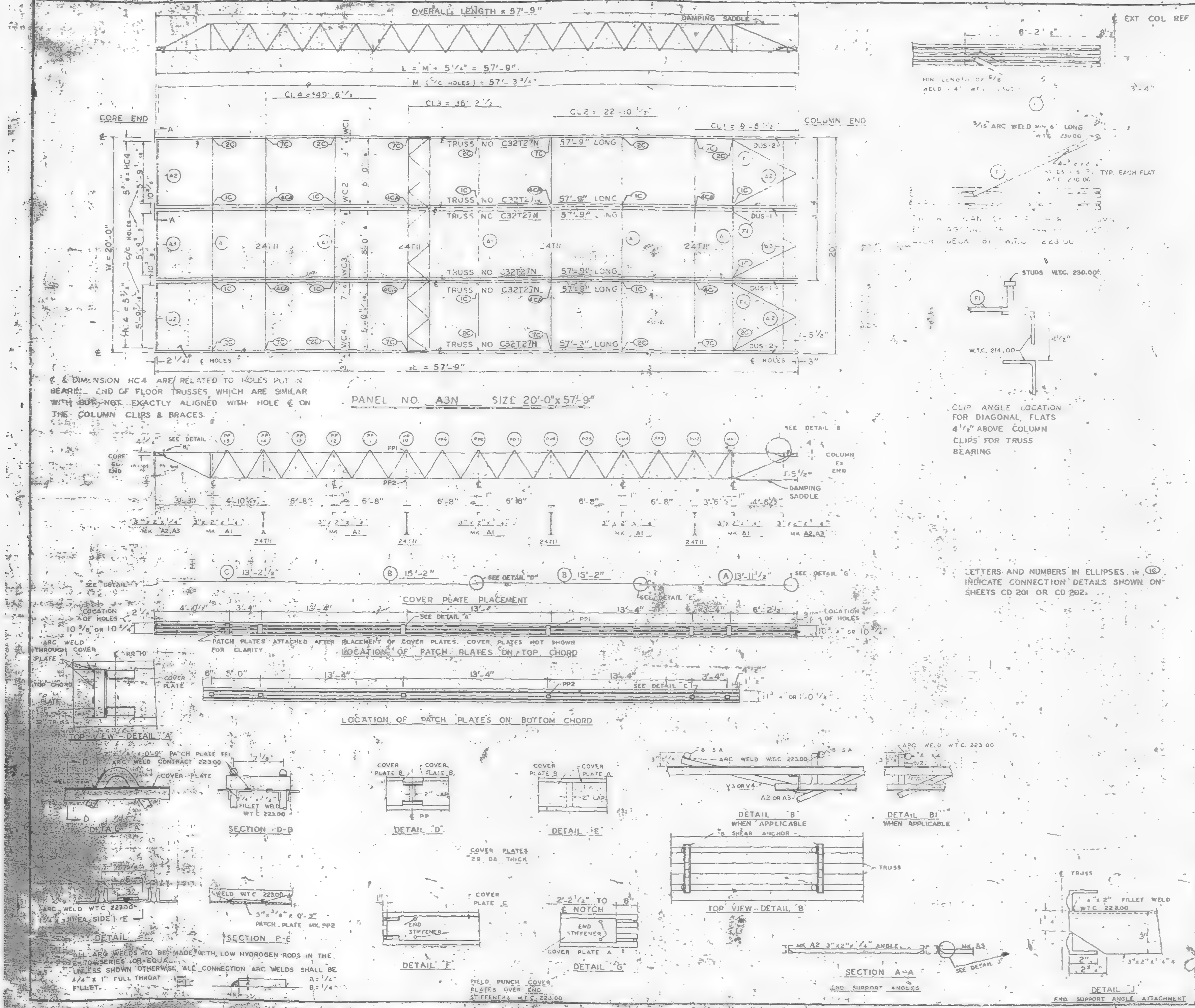
[illegible]
FOR
[illegible] NEW YORK AUTHORITY

BLDG B FLOORS 78 (SOUTH)

PANEL A3C [illegible] x 59'-8"

BLDG B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO AB3-42
PLATE
APPROVED FOR FABRICATION BY [illegible] PONKA DATE 7/31/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP A3C


OVERALL LENGTH = 57'-9"
DAMPING SADDLE
L = M + 5 1/4" = 57'-9"
M (C/C HOLES) = 57'-3 3/4"
CL4 = 49'-6 1/2
CL3 = 36'-2 1/2
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
EXT COL REF LINE
TRUSS NO C32T27N 57'-9" LONG
24T11
W = 20'-0"
PANEL NO A3N SIZE 20'-0"x57'-9"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
5/16" ARC WELD MIN 6" LONG
STUDS W.T.C. 230.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
COLUMN END
DAMPING SADDLE
LETTERS AND NUMBERS IN ELLIPSES i.e. ①C INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL "B"
COVER PLATES 29 GA THICK
SECTION E-E
3"x3/8"x0'-3" PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27N	6	C32T27N - 57'-9"	ST227N
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	BT211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	[illegible]	1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	1 3/4"x [illegible] 3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x3 1/2"	ST400
	P2	8	4 1/2"x.39"x0'-9"	ST400
	P3	9	4 1/2"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-42	1-6-69
7-AB1-24	1-6-69
7-AB2-6	7-22-68

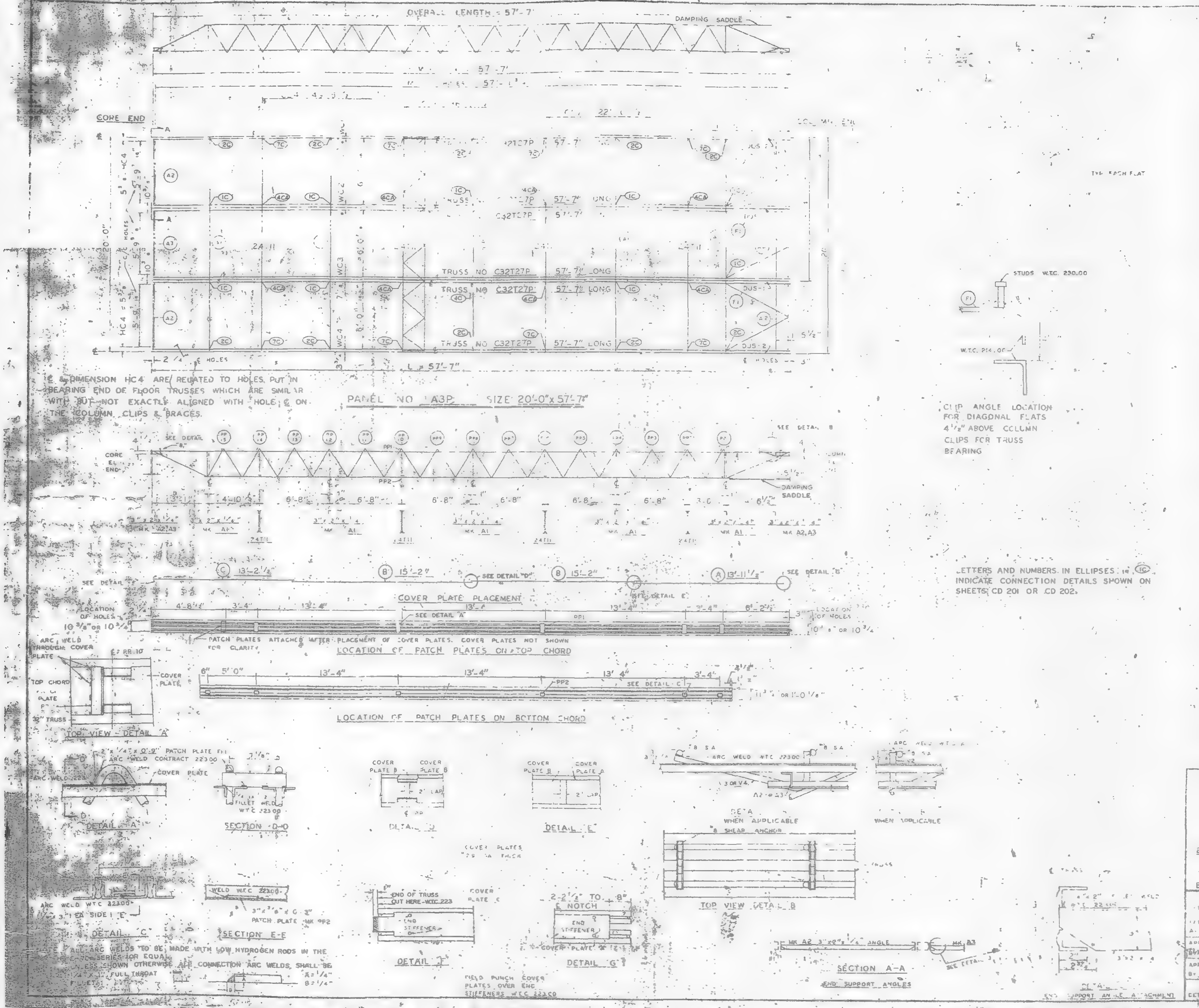
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)

PANEL A3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-42	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. FP A3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
57'-7"
CORE END
COLUMN LINE
TRUSS NO C32T27P 57'-7" LONG
C32T27P 57'-7"
DUS-1
DUS-2
HC4
WC4
WC3
24'-11
2 1/4" ℄ HOLES
℄ 57'-7"
PANEL NO A3P SIZE 20'-0" x 57'-7"
SEE DETAIL B
SEE DETAIL "B"
CORE EL END
PP1
PP2
DAMPING SADDLE
MK A2,A3
MK A1
24T11
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL "A"
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD
COVER PLATE
TRUSS
TOP VIEW DETAIL "A"
PATCH PLATE
ARC WELD CONTRACT 22300
DETAIL "A"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
ARC WELD W.T.C. 22300
A2 OR A3
DETAIL WHEN APPLICABLE
SHEAR ANCHOR
WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES
ARC WELD W.T.C. 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
WELD W.T.C. 22300
DETAIL "C"
SECTION E-E
END OF TRUSS CUT HERE-W.T.C. 223
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8"
E NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x2"x1/4" ANGLE
MK A3
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 1/2" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

	MK	NO	SIZE	REF DWG
	[illegible]	6	[illegible]T27P-57'-7	[illegible]T27P
				403
				ST 40
				ST 4
PATCH PLATES	PP2	24	[illegible]	ST 400
				ST 303
COVER PLATES	B	6	[illegible]	ST 303
	C	4	9"x.0135"x3'-2 1/2"	ST 303
ANGLE [illegible]	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
[illegible] SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
[illegible] SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	2	[illegible]"x[illegible]3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x3 1/2"	ST 400
	P2	8	4 1/2"x.39"x0'-8"	ST 400
	P3	8	4 1/2"x.39"x1'-0"	ST 400

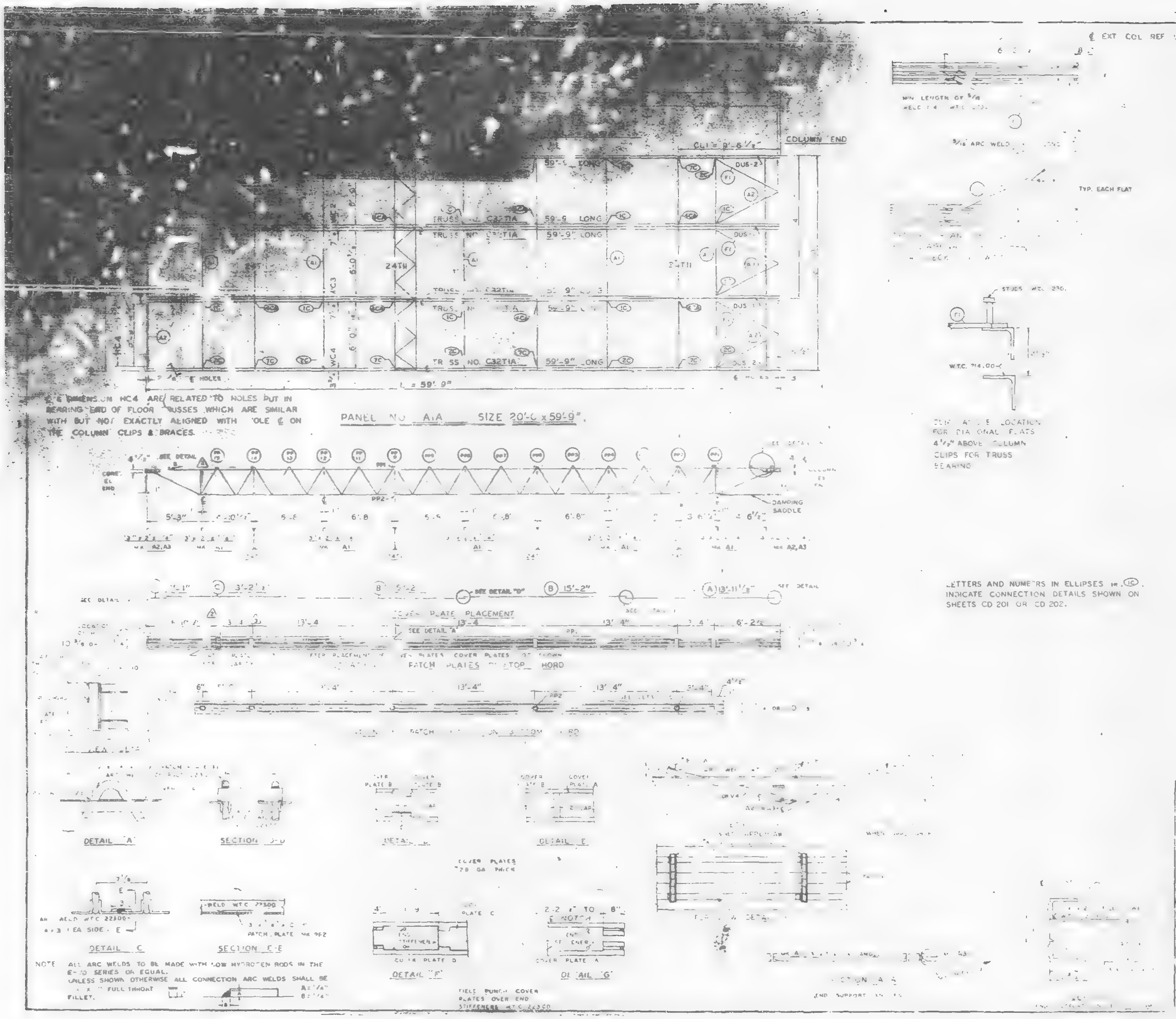
NO	DATE	REVISION		BY

REF DRWG

[illegible] AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-24	1-6-69
7-AB3-42	1-6-69
7-AB[illegible]-24	1-6-69
7-AB2-6	7-22-68

[illegible] PANEL DETAILS
FOR
[illegible] C
[illegible] OF NEW YORK AUTHORITY
BLDG. A FLOORS 78 (NORTH)
PANEL A3P 20'-0" x 57'-7"
BLDG. B FLOORS 78 (WEST)

[illegible] NUIS		DESIGN DRAWING NO 7 AB3-42	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.N.Y.A.	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
[illegible] STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT NO. W.T.C. 221	SHEET NO. FP A3P



CUT 9'-6 1/2"
COLUMN END
59'-9" LONG
TRUSS NO. C32T1A
59'-9" LONG
24T11
TRUSS NO. C32T1A 59'-9" LONG
HC4
WC4
HOLES
L = 59'-9"
DUS-2
PP2
5'-3"
6'-8"
6'-8"
6'-8"
DAMPING SADDLE
SEE DETAIL "D"
SEE DETAIL
COVER PLATE PLACEMENT
SEE DETAIL "A"
13'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
DETAIL "A"
SECTION D-D
DETAIL "B"
DETAIL "E"
COVER PLATES 28 GA PACK
DETAIL C
SECTION E-E
WELD WTC 22300
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
COVER PLATE D
COVER PLATE A
FIELD PUNCH COVER PLATES OVER END STIFFENERS
END SUPPORT
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD
5/16 ARC WELD
TYP. EACH FLAT
STUDS WTC 230
W.T.C. 214.00

℄ DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO A1A SIZE 20'-0 x 59'-9".

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

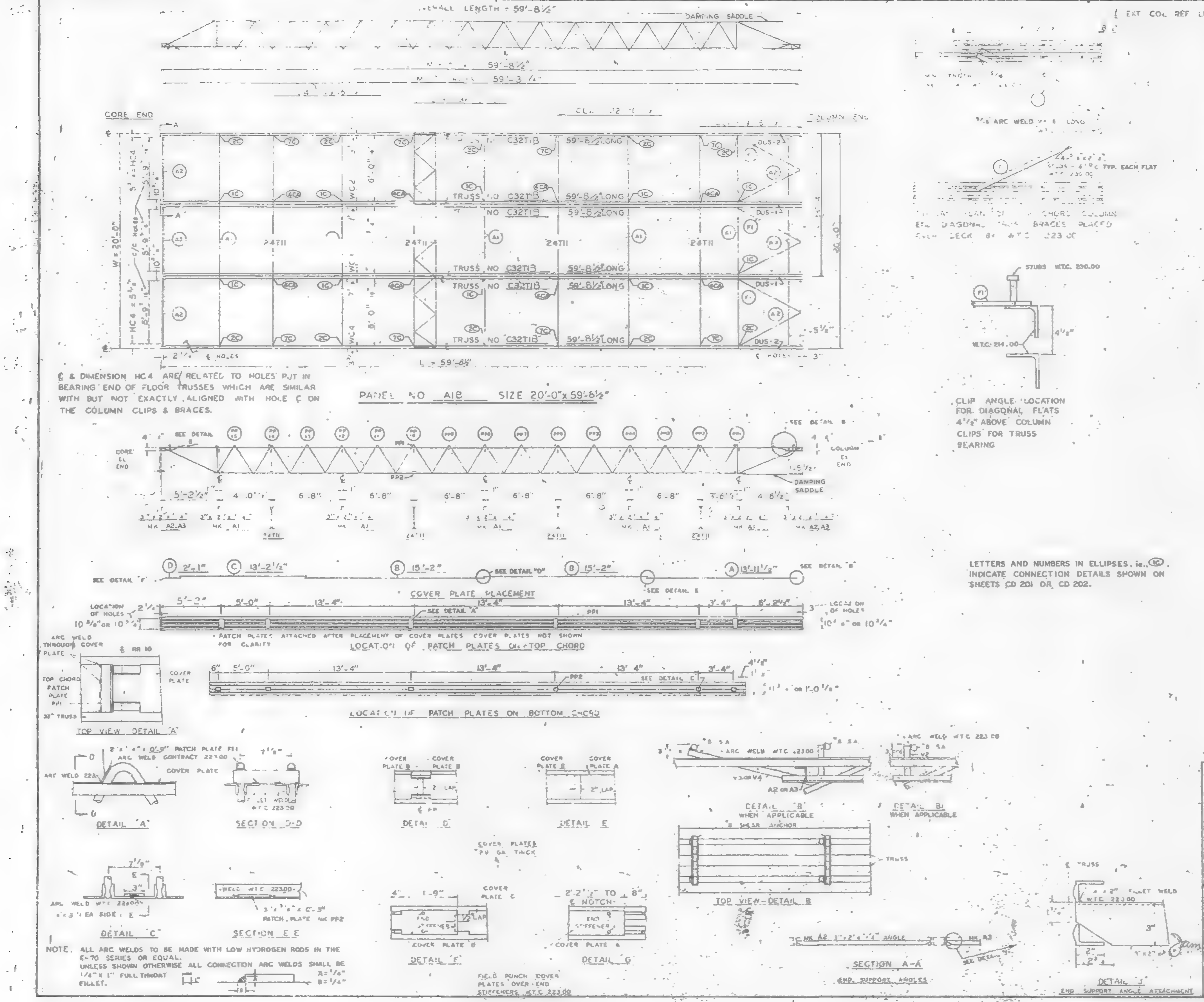
NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
[illegible] TRUSSES	T11	4	24T11 - 9'-11	ST211
ANGLE	A1	5	3 x 2" x 1/4" x 19'-11"	ST403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST403
[illegible] FLATS	F1	6	1/2 x 3/8" x 6-8	ST402
PATCH PLATES	PP1	24	2" x 1/4" x 0-9"	ST 400
	PP2	24	3 x 3/8" x 0 [illegible]	ST 400
[illegible] PLATES	A		9 x 0.35" x 3 [illegible] 2	ST303
	B	8	9 x 0.35 x 5-2	ST303
	C	4	9" x 0.135" x 13'-2	ST303
	D	4	9" x 0.135 x 2 [illegible]	ST303
	[illegible]	24	[illegible]	ST400
[illegible] ANCHOR	A2	16	#8 REBAR x 0'-9"	ST 400
[illegible] SADDLE	DUS 1	2	3 1/2 x 3 1/2 x 3/8 x 3-6	ST298
	DUS 2	2	3 1/2 x 3 1/2 x 3/8 x 3-6 7/8	ST298
[illegible] BAR	CB1	2	[illegible] x 3	ST 400
CONNECTION PLATES	P1	16	4 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .36" x 1'-0"	ST 400

3	3-11-69	[illegible] NOTED	[illegible]
2	[illegible] 68	AS NOTED	[illegible]
		GENERAL	TMC
		REVISION	

FLOORS 12 24, 26-38 (NORTH & SOUTH), 49-58, 60 66, 68,
[illegible] NORTH PANEL A1A - 20'-0" x 59'-9"

[illegible] LACLEDE COMPANY
[illegible] ILLINOIS
DESIGN DRAWING NO A33-3 4 68 DATE
APPROVED FOR FABRICATION FOR PONYA DATE 3/24/69
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION FOR FABRICATOR DATE
CHECKED BY J.R. [illegible] DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO 221
SHEET NO FP A1A


OVERALL LENGTH = 59'-8 1/2"
DAMPING SADDLE
59'-8 1/2"
59'-3 1/4"
CORE END
COLUMN END
TRUSS NO C32T1B 59'-8 1/2" LONG
24T11
DUS-1
DUS-2
W = 20'-0"
L = 59'-8 1/2"
PANEL NO A13 SIZE 20'-0" x 59'-8 1/2"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL E
DETAIL "B"
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
ARC WELD W.T.C. 223.00
COVER PLATES .74 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
EXT COL REF LINE

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	6	C32T1B - 59'-8 1/2"	ST 208
BRIDGING TRUSSES	T1	4	24T11 - 9'-11"	[illegible]
3 x 2 x 1/4 ANGLE	A1	5	3"x2"x1/4"x9'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-[illegible] 3/4"	ST 403
DIAGONAL FLATS	F1	6	1/2" x 5" x 5'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST 303
	B	6	9"x.0135"x15'-2"	ST 303
	C	4	9"x.0135"x13'-2 1/2"	ST 303
	D	4	9"x.0135"x2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-8"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

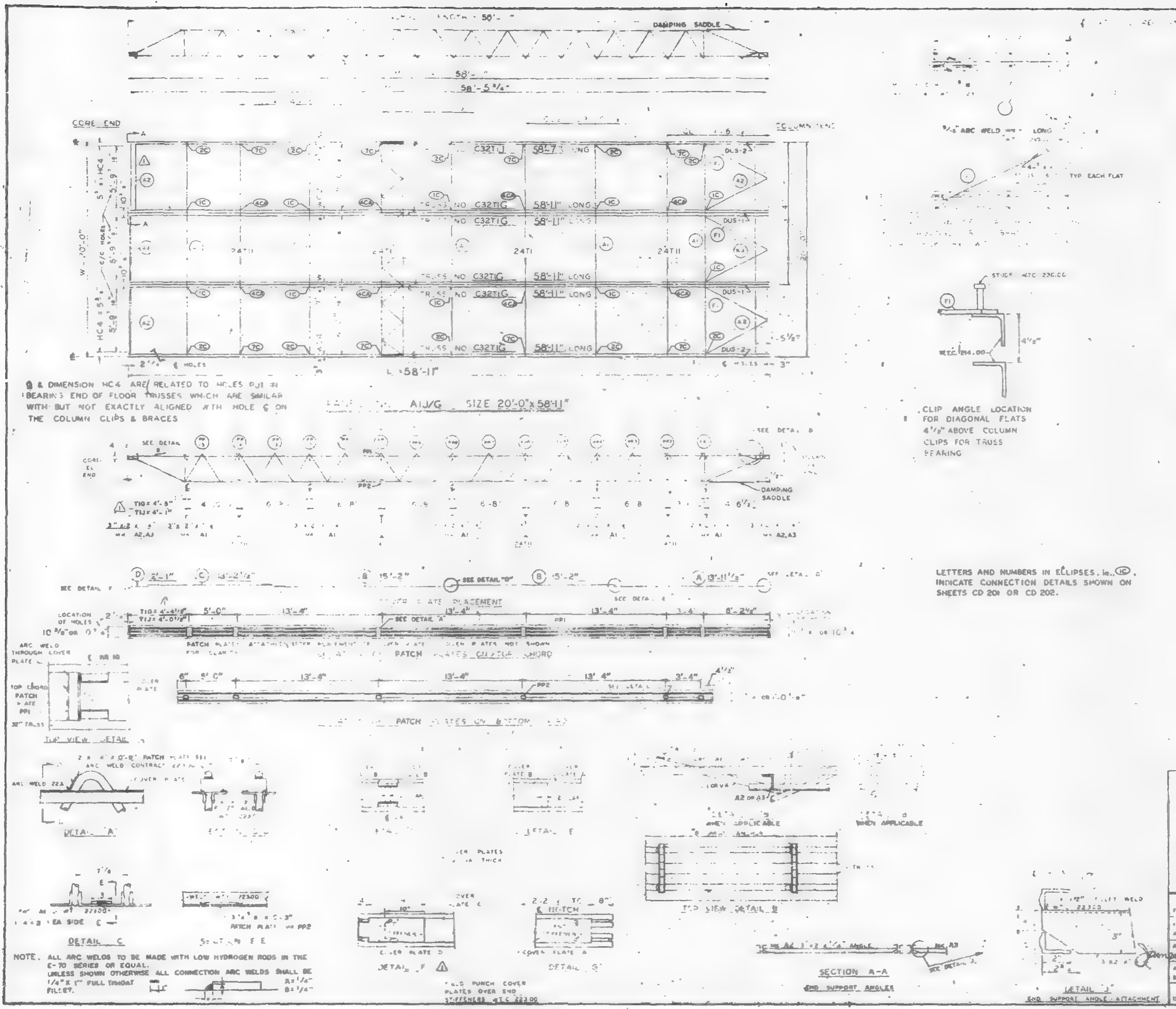
NO.	DATE	REVISION	BY
1	10-21-68	AS NOTED	G.D.C.

REF DRWG
7-AB4-3, 3.1 & 39 1-3-68
AB4-15 & 16 5-6-68
7-AB4-41 1-3-68
SA 124 10-20-67
7-AB3-2 [illegible]-3-68
7-AB1-2 2-15-68
7-AB2-6 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93-106 (NORTH) ⚠1
PANEL A13 20'-0" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 10/24/68
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP A13


DAMPING SADDLE
58'-5 3/4"
CORE END
COLUMN END
C32TIJ 58'-7 LONG
TRUSS NO C32TIG 58'-11" LONG
24TI
DUS-1
DUS-2
L = 58'-11"
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL
DETAIL "A"
DETAIL E
DETAIL C
SECTION E-E
DETAIL F
DETAIL S
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
TYP EACH FLAT
WHEN APPLICABLE

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL AIJ/G SIZE 20'-0" x 58'-11"

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	NO.	SIZE	
FLOOR TRUSSE	TIG	2	C32TIG - 58'-11"	ST 20 G
	TIJ	1	C32TIJ - 58'-7"	ST 201J
[illegible]	TI	4	24T [illegible] 9 [illegible]	[illegible]
[illegible] ANGLE	A1	5	3"x2"x [illegible] x 9'-11"	ST 403
	A2	4	3"x2"x [illegible] 4 x 5-11 1/8	ST 403
	A3	2	3 x2 x [illegible] 4 x 5-11 3/4	ST 403
DIAGONAL FLATS	F	6	[illegible] 1/2 x 5/8 x [illegible] -8	ST 400
PATCH PLATES	PP1	24	2" x 1/4 x 0-9	ST 400
	PP2	24	3" x 3/8 x 0-3"	ST 400
COVER PLATES	A	4	9"x 0.135 x 3-11 1/2	ST 303
	B	8	9 x 0.135 x 15-2	ST 303
	C	4	9 x 0.135" x 13'-2 1/2	ST 303
	D	4	9 x 0.135 x 2 [illegible]	ST 303
ANGLE CLIPS	C1	24	2 x 2 x 1/4 x 0-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3-6 7/8	ST 298
	DUS-2	2	3 1/2"x3 1/2"x 3/8 x 3 6 7/8	ST 298
CONNECTION BAR	CB1	8	1 [illegible] x 1-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-8"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

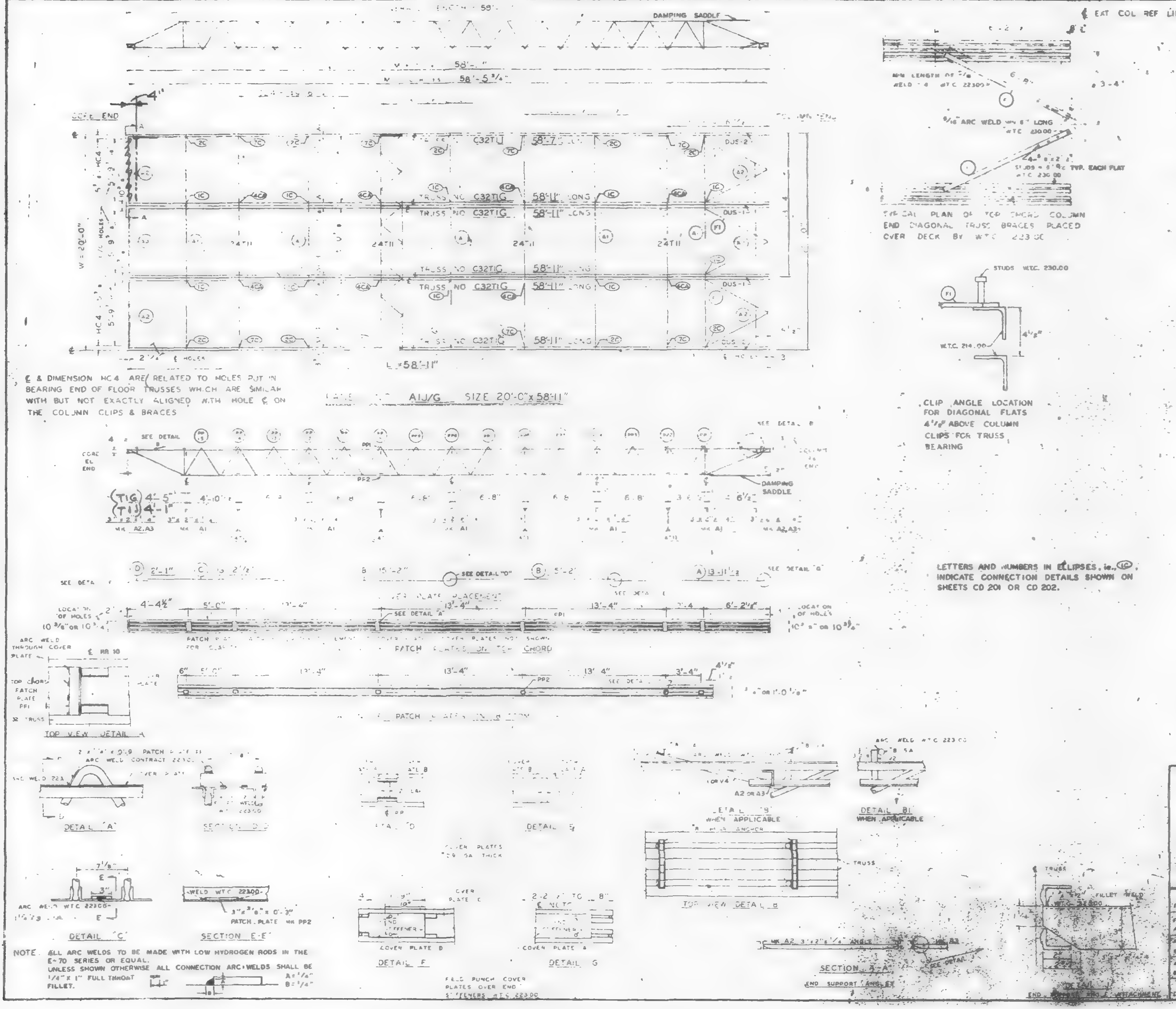
NO.	DATE	REVISION	BY
1	10-2-68	AS NOTED	GDC

A83-41	1 3 68
SA [illegible]	2 20 67
A83 2	1 [illegible] 68
A81 2	2 15 68
[illegible]	2 15 68

BLDG [illegible] 40 (N)

PANEL AIJ/G 20'-0" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 A83-3 4 68 PLATE
APPROVED FOR FABRICATION James [illegible] FOR PONYA DATE 10/24/68
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A G WEBER
FABRICATION CONT NO WTC 221
SHEET NO FP AIJ/G


DAMPING SADDLE
58'-5 3/4"
CORE END
W=20'-0"
TRUSS NO C32T1J 58'-7"
TRUSS NO C32T1G 58'-11" LONG
24T11
DUS-1
DUS-2
L=58'-11"
PANEL AIJ/G SIZE 20'-0" x 58'-11"
SEE DETAIL B
CORE EL END
(T1G) 4'-5"
(T1J) 4'-1"
6'-8"
DAMPING SADDLE
SEE DETAIL "D"
COVER PLATE PLACEMENT
SEE DETAIL "A"
PATCH PLATES ON TOP CHORD
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL D
DETAIL E
DETAIL "C"
SECTION E-E
WELD WTC 22300
3"x3/8"x 0'-3" PATCH PLATE MK PP2
DETAIL F
DETAIL G
COVER PLATE D
COVER PLATE A
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLES
€ EXT COL REF LINE
NEW LENGTH OF 1/4" WELD 1/4" W.T.C. 223.00
5/16" ARC WELD 1/4" x 6" LONG W.T.C. 230.00
STUDS WTC 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	5	C32T1G - 58'-11"	ST201G
	T1J	1	C32T1J - 58'-7"	ST201J
BRIDGING TRUSSES	T1	4	24T11 - 18'-11"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 3/4"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x .0135" x 13'-11 1/2"	ST303
	B	8	9" x .0135" x 15'-2"	ST303
	C	4	9" x .0135" x 13'-2 1/2"	ST303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1 "# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	6	4 1/2" x .38" x 0'-0"	ST 400
	P3	8	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG		
	7-AB4-3,3.1 & 30	1-3-68
	7-AB4-15 & 16	5-6-68
	7-AB4-41	1-3-68
	SA-124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-15-68
	7-AB2-6	2-15-68

SKILLING HELLE CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
10/18/68. SK

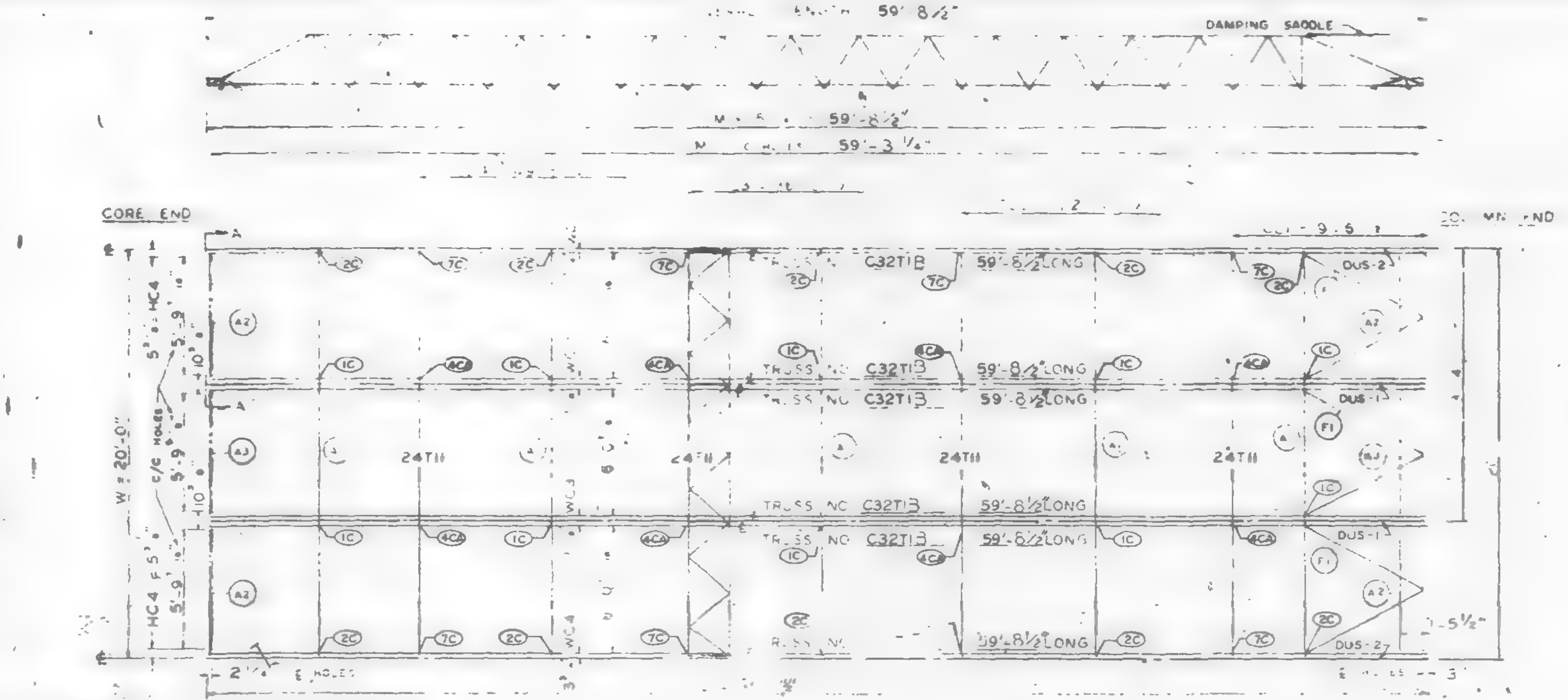
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 40 (N)

PANEL AIJ/G - 20'-0" x 58'-11"

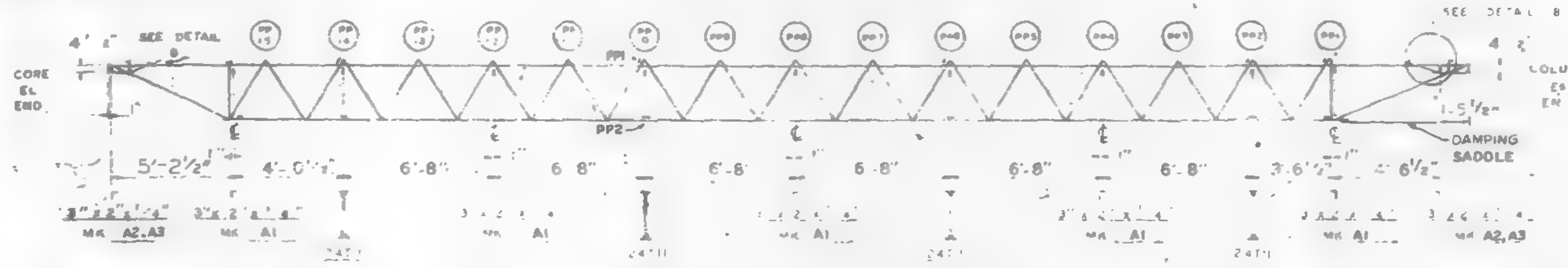
FABRICATION BY : LACLEDE STEEL COMPANY

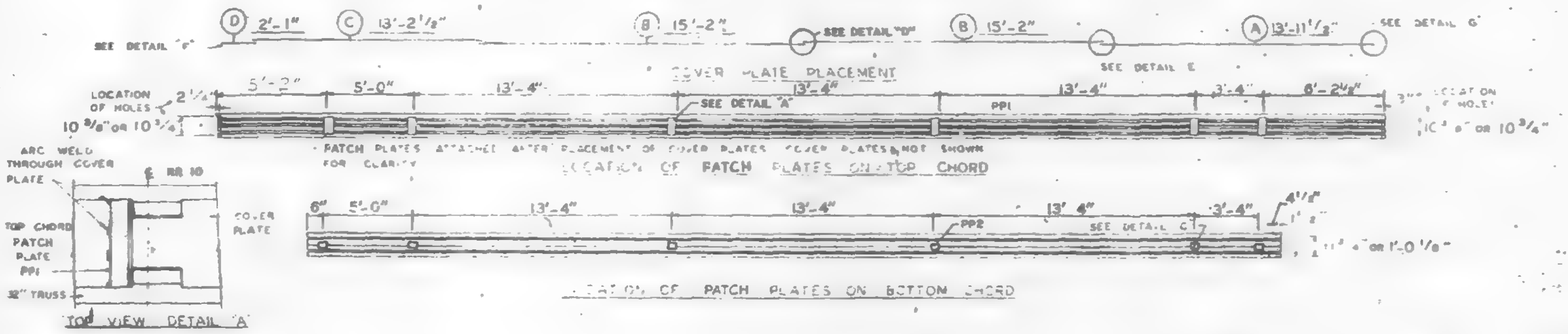
FABRICATED AT MADISON ILLINOIS		DESIGN DRAWING - NO. 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.G. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP AIJ/G

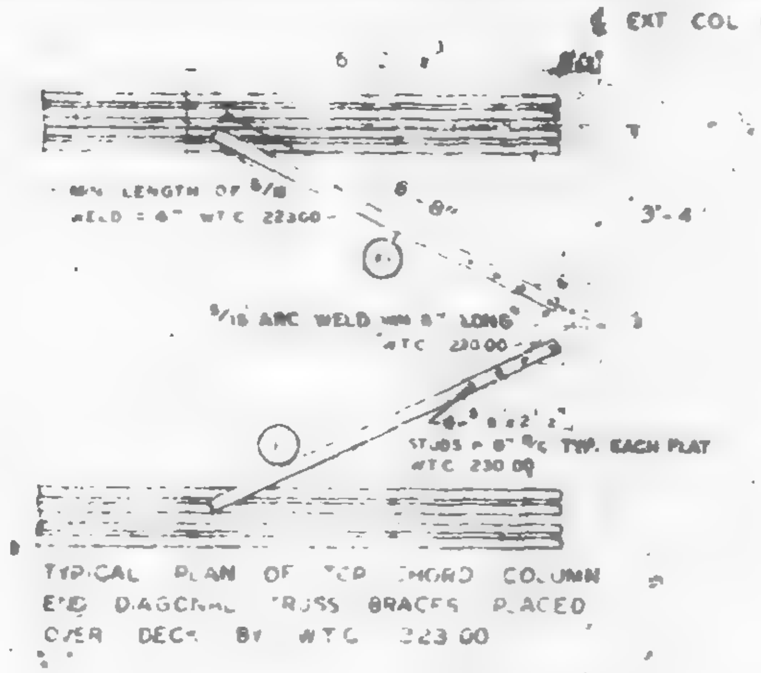

LENGTH 59'-8½"
DAMPING SADDLE
59'-8½"
59'-3¼"
CORE END
COL. END
W = 20'-0"
HC4
TRUSS NO. C32T1B 59'-8½" LONG
24T11
DUS-1
DUS-2
(A2) (A3) (1C) (2C) (7C) (4CA) (F1)
2-5½"
€ HOLES

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

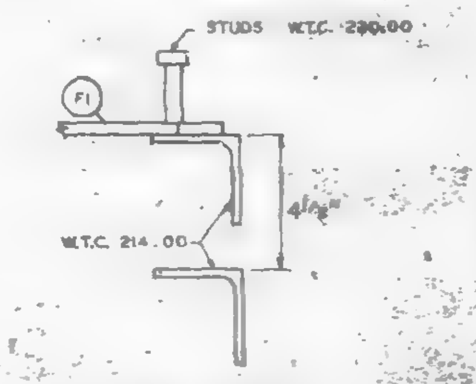
PANEL NO. A1B SIZE 20'-0" x 59'-8½"


SEE DETAIL
CORE EL END
PP1
PP2
SEE DETAIL B
COLUMN EL END
DAMPING SADDLE
5'-2½"
4'-0"
6'-8"
3'-6"
4'-6½"
MK A2, A3
MK A1
24T11


SEE DETAIL "F"
(D) 2'-1"
(C) 13'-2½"
(B) 15'-2"
SEE DETAIL "D"
(B) 15'-2"
(A) 13'-11½"
SEE DETAIL "G"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES 2½"
10⅝" OR 10¾"
5'-2"
5'-0"
13'-4"
SEE DETAIL "A"
PP1
3'-4"
6'-2¼"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
6"
5'-6"
PP2
SEE DETAIL C
4⅛"
1'-0⅛"
LOCATION OF PATCH PLATES ON BOTTOM CHORD


€ EXT COL REF LINE
6'-3"
MIN LENGTH OF 3/16 WELD = 4" WTC 22300
3'-4"
3/16 ARC WELD MIN 6" LONG WTC 23000
STUDS @ 6" C/C TYP. EACH PLAT WTC 23000
(F1)

TYPICAL PLAN OF TOP CHORD COLUMN E&D DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

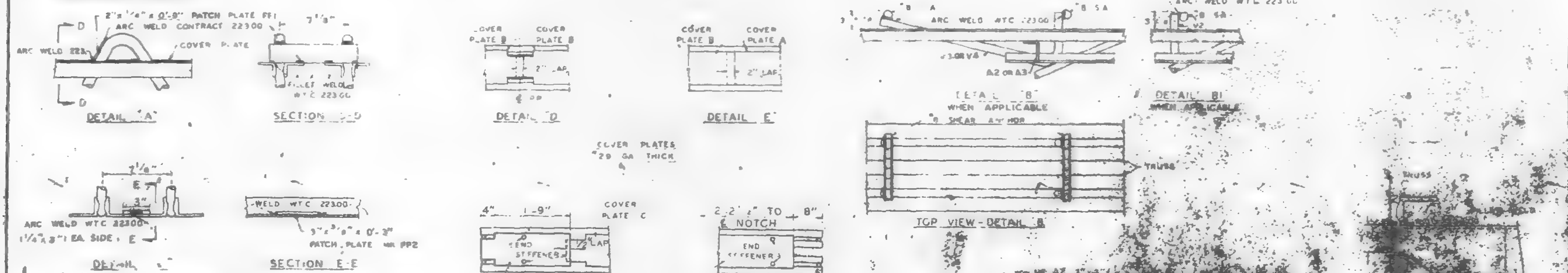

STUDS W.T.C. 230.00
(F1)
W.T.C. 214.00
4⅛"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4⅛" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	6	C32T1B - 59'-8½"	ST201B
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST211
3"x2"x¼ ANGLE	A1	8	3"x2"x¼ x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 8'-11⅞	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x⅜"x 6'-6"	ST 402
PATCH PLATES	PP1	24	2"x¼"x 0'-9"	ST 400
	PP2	24	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST 303
	B	8	9"x.0135"x 15'-2"	ST 303
	C	4	9"x.0135"x 13'-2½"	ST 303
	D	4	9"x.0135"x 2'-1"	ST 303
ANGLE CLIPS	C1	24	2"x1½"x¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST 298
	DUS-2	2	3½"x3½"x⅜"x3'-6⅞"	ST 298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½"x⅜"x 6½"	ST 400
	P2	8	4½" x .38" x 0'-6"	ST 400
	P3	8	4½" x .38" x 15'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NO.	DATE	REVISION	BY


2"x¼"x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 223
DETAIL "A"
7⅛"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
ARC WELD WTC 22300
A2 OR A3
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
ARC WELD W.T.C. 223.00
SA
DETAIL "B1" WHEN APPLICABLE
TRUSS
TOP VIEW DETAIL "B"
COVER PLATES 20 GA THICK
7⅛"
3"
ARC WELD WTC 22300
1¼"x3" EA SIDE E
DETAIL
WELD WTC 22300
3"x⅜"x 0'-3" PATCH PLATE MK PP2
SECTION E-E
4"
1'-9"
COVER PLATE C
END STIFFENER
LAP
COVER PLATE D
DETAIL "F"
2'-2½" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.
A = ¼"
B = ¼"

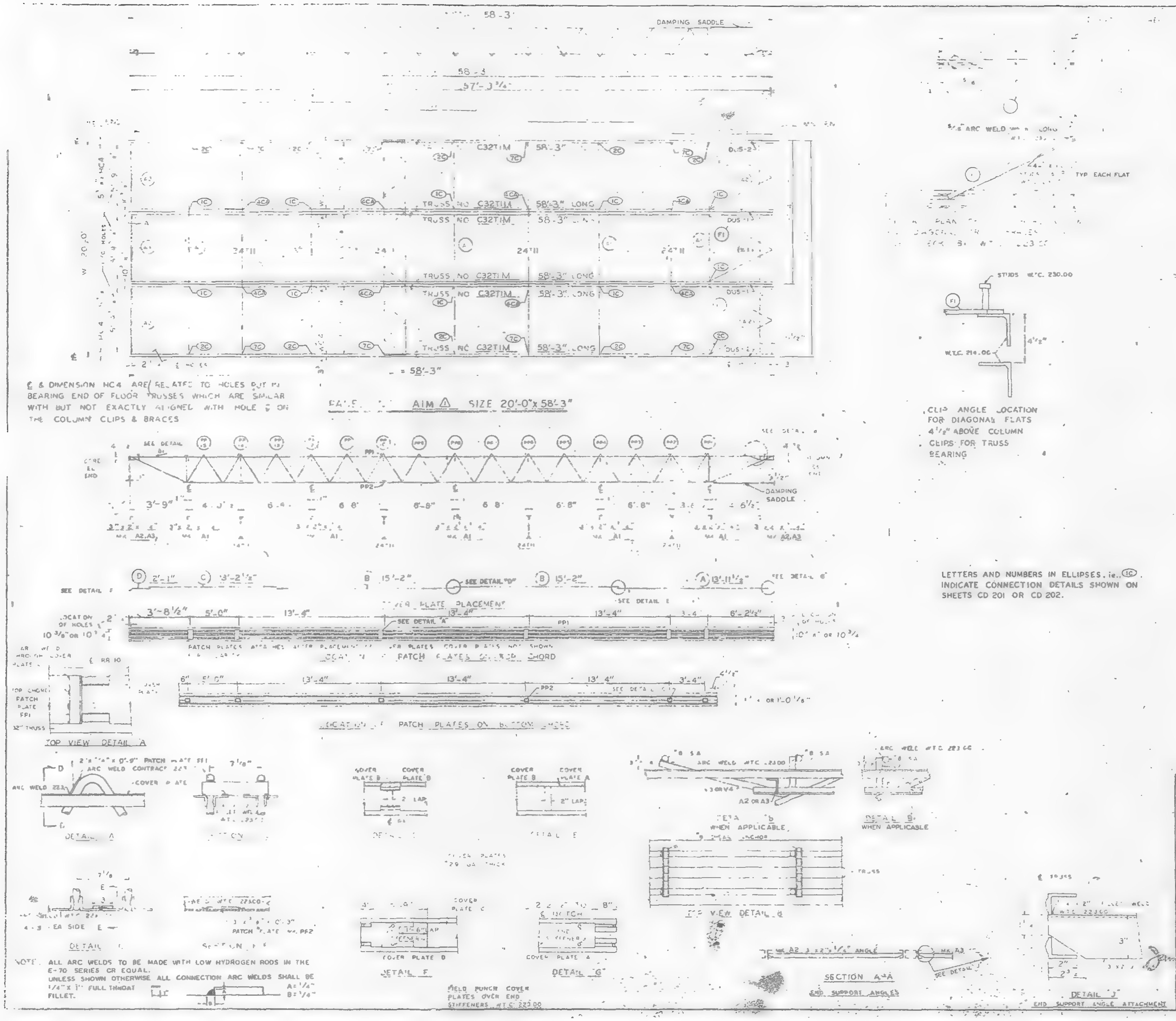
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
RESUBMIT
☐ REJECTED
Date 10 15 68 SK

REF DRWG	
7-AB4-3, 3.1 & 38	1-3-68
7-AB4-15 & 16	8-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS ~~[illegible]~~ 83-91, 93-106 North
PANEL A1B - 20'-0" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-2 4-1-66
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE FEB 24 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T. CHURA DATE OCT. 11, 1968
IN CHARGE OF [illegible] REV.
DETAILED BY LACLEDE STEEL CO.
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP A13


58'-3"
DAMPING SADDLE
57'-3 3/4"
TRUSS NO C32T1M 58'-3" LONG
DUS-2
DUS-1
24"
20'-0"
= 58'-3"
PANEL AIM SIZE 20'-0" x 58'-3"
SEE DETAIL
DAMPING SADDLE
3'-9"
6'-8"
6 1/2"
A2,A3
A1
SEE DETAIL "D"
2'-1"
3'-2 1/2"
15'-2"
13'-11 1/2"
COVER PLATE PLACEMENT
3'-8 1/2"
5'-0"
13'-4"
6'-2 1/2"
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
ARC WELD
COVER PLATE
DETAIL A
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
DETAIL F
DETAIL G
WHEN APPLICABLE
A2 OR A3
TOP VIEW DETAIL B
STUDS WTC 230.00
W.T.C. 214.00
A2 3"x2"x1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
TYP EACH FLAT
3/16" ARC WELD
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES OUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

[illegible]	MK	[illegible]	SIZE	REF. DRWG.
	T1	6	C32T1M - 58'-3"	ST20[illegible]
	T	4	24" [illegible] 9	[illegible]
	A1	5	3"x2"x1/4"x9'-11"	ST4[illegible]
	A2	4	3"x2"x1/4"x5'-11 5/16"	[illegible]
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 401
[illegible] FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
[illegible] PLATES	A	4	9"x.0135"x13'-1 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 [illegible] ANCHOR	SA2	12	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST 400
	P2	8	4 1/2"x.30"x0'-9"	ST 400
	P3	8	4 1/2"x.30"x1'-0"	ST 400

NO	DATE	REVISION	BY
1	10-21-68,	AS NOTED	G.D.C.

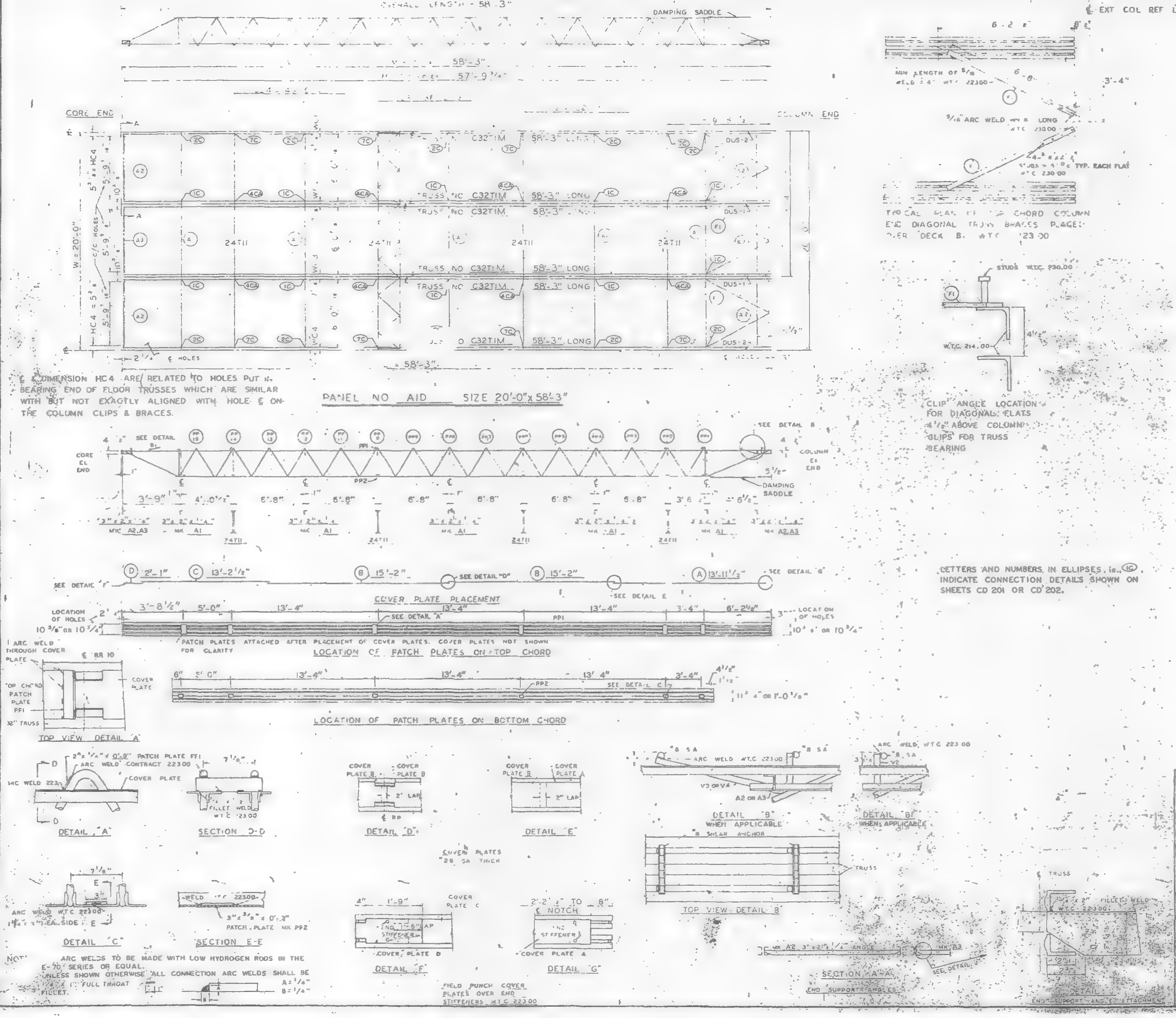
REF DRWG	
AB4-3,3.1 & 39	1-3-68
AB4-5 & 6	5-6-68
AB4-41	1-3-68
SA-24	[illegible]-20-67
AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73 (N)

PANEL AIM : 20'-0" x 58'-3"

FABRICATION BY : LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION James White FOR PONYA DATE 10/24/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER	FABRICATION CONT NO WTC 221	SHEET NO FP AIM


OVERALL LENGTH - 58'-3"
DAMPING SADDLE
58'-3"
57'-9 3/4"
CORE END
COLUMN END
C32T1M 58'-3" LONG
TRUSS NO C32T1M 58'-3" LONG
24T11
W = 20'-0"
HC4
DUS-1
DUS-2
€ HOLES
2 1/4
€ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD 3 4" W.T.C. 223.00
5/16 ARC WELD 6 LONG W.T.C. 230.00
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
SEE DETAIL B
SEE DETAIL B1
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
3'-9"
4'-0 1/2"
6'-8"
3'-6"
6 1/2"
MK A2, A3
MK A1
24T11
2'-1"
13'-2 1/2"
15'-2"
13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL "F"
SEE DETAIL "G"
LOCATION OF HOLES
10 3/8" or 10 3/4"
3'-8 1/2"
5'-0"
13'-4"
SEE DETAIL "A"
3'-4"
6'-2 1/2"
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2"x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
FILLET WELD W.T.C. 223.00
DETAIL "A"
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 28 SA THICK
#8 SA
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL "B"
7 1/8"
ARC WELD W.T.C. 22300
1 1/4" x 3" EA. SIDE
DETAIL "C"
WELD W.T.C. 22300
3"x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
COVER PLATE D
DETAIL "F"
€ NOTCH
STIFFENER
COVER PLATE A
DETAIL "G"
MK A2 3"x2"x1/4" ANGLE
MK A3
SECTION A-A
END SUPPORT ANGLES
2" FILLET WELD
W.T.C. 22300
END SUPPORT ANGLE ATTACHMENT

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

PANEL NO A1D SIZE 20'-0" x 58'-3"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK B. W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS, IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

COVER PLATE PLACEMENT

LOCATION OF PATCH PLATES ON TOP CHORD

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

LOCATION OF PATCH PLATES ON BOTTOM CHORD

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

NOTE: ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4 X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32T1M - 58'-3"	ST201M
BRIDGING TRUSSES	T11	4	24T1 - 19'-1."	BT211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 6-8"	ST 402
PATCH PLATES	PP1	24	2" x 1/4" x 0'-9"	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CBr	8	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

RECEIVED

NO.	DATE	REVISION	BY

REF DRWG		
	7-AB4-3, 3,1 & 39	1-3-68
	7-AB4-15 & 16	5-6-68
	7-AB4-41	1-3-68
	SA-124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-15-68
	7-AB2-6	2-15-68

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
X REVIEWED AND NOTED
10/15/68 by SK

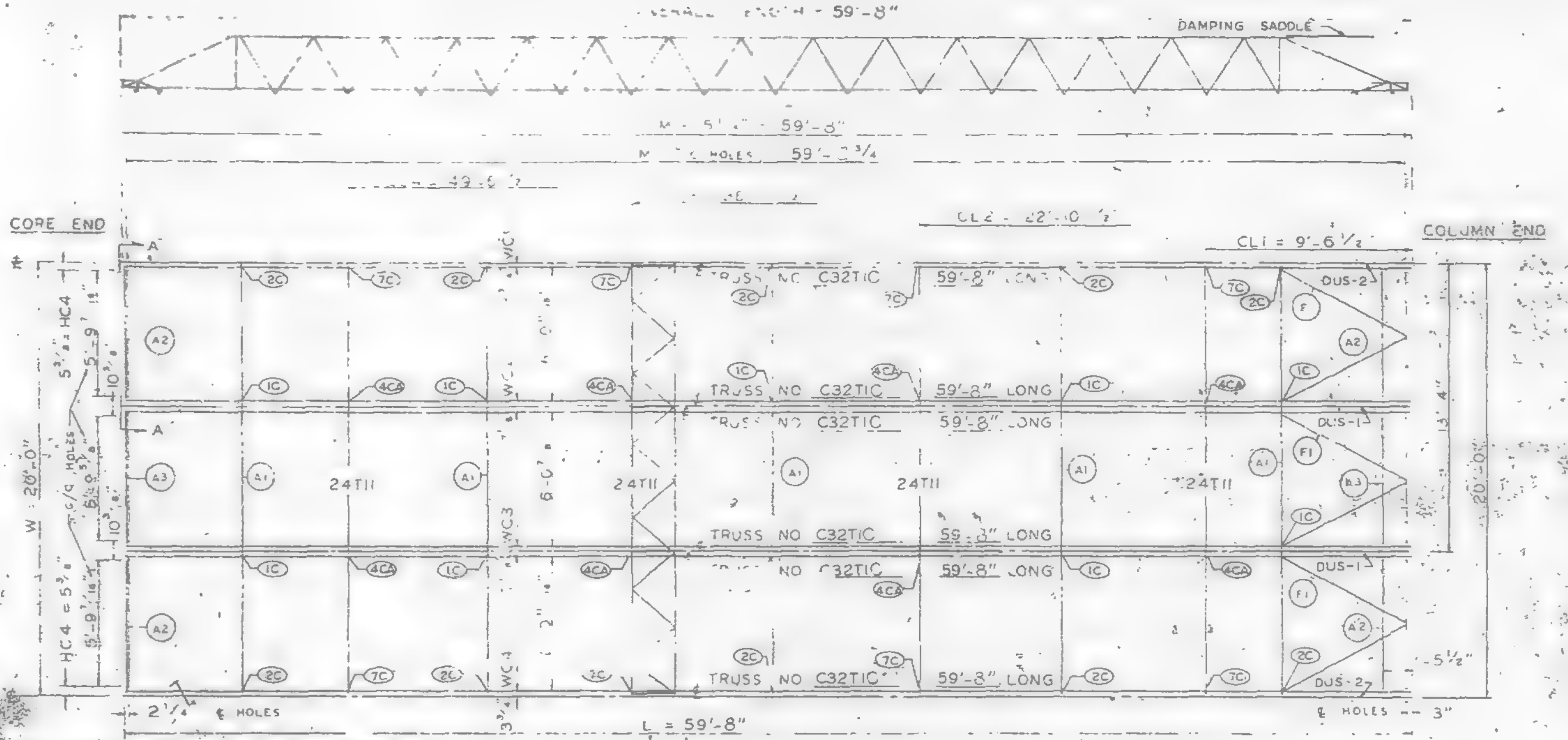
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)

PANEL A1M 20'-0" x 58'-3"

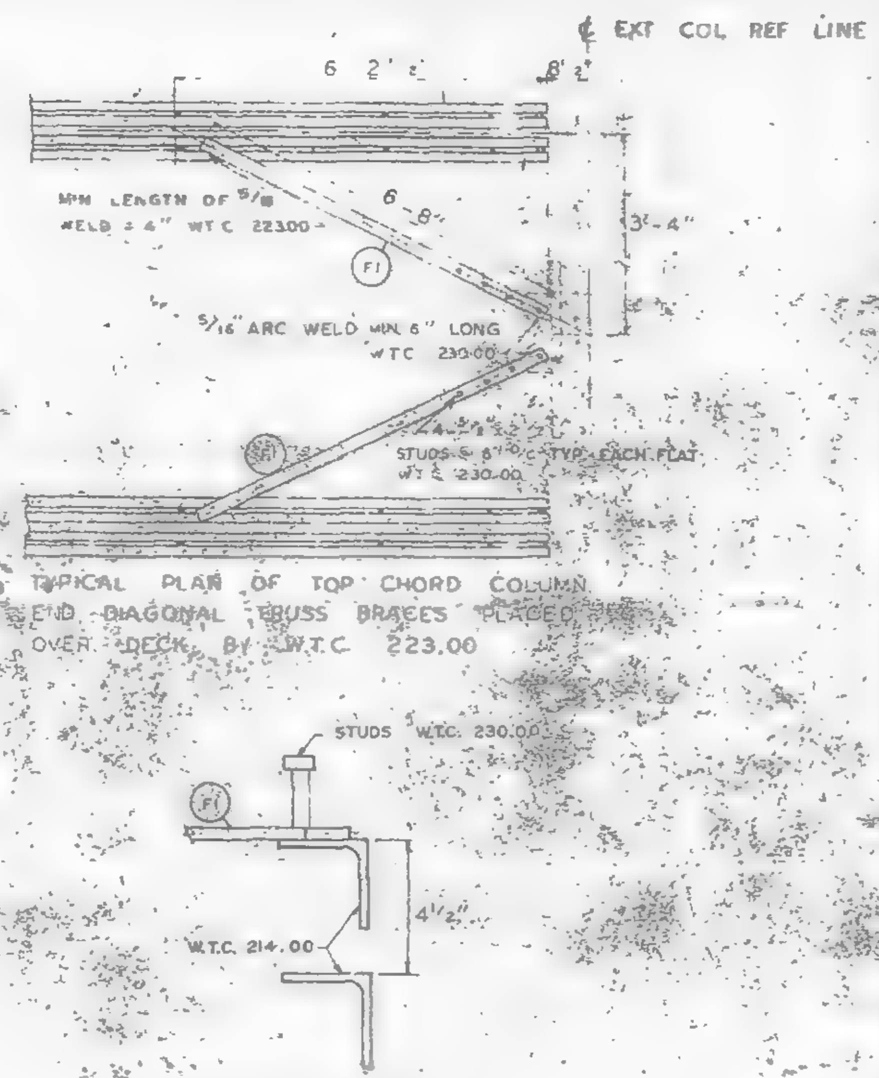
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A	DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP A1M


OVERALL LENGTH - 59'-8"
DAMPING SADDLE
CORE END
COLUMN END
CL1 = 9'-6 1/2"
TRUSS NO C32T1C 59'-8" LONG
24T11
W = 20'-0"
HC4 = 5 3/4"
DUS-1
DUS-2
2 1/4" ℄ HOLES
L = 59'-8"
℄ HOLES - 3"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

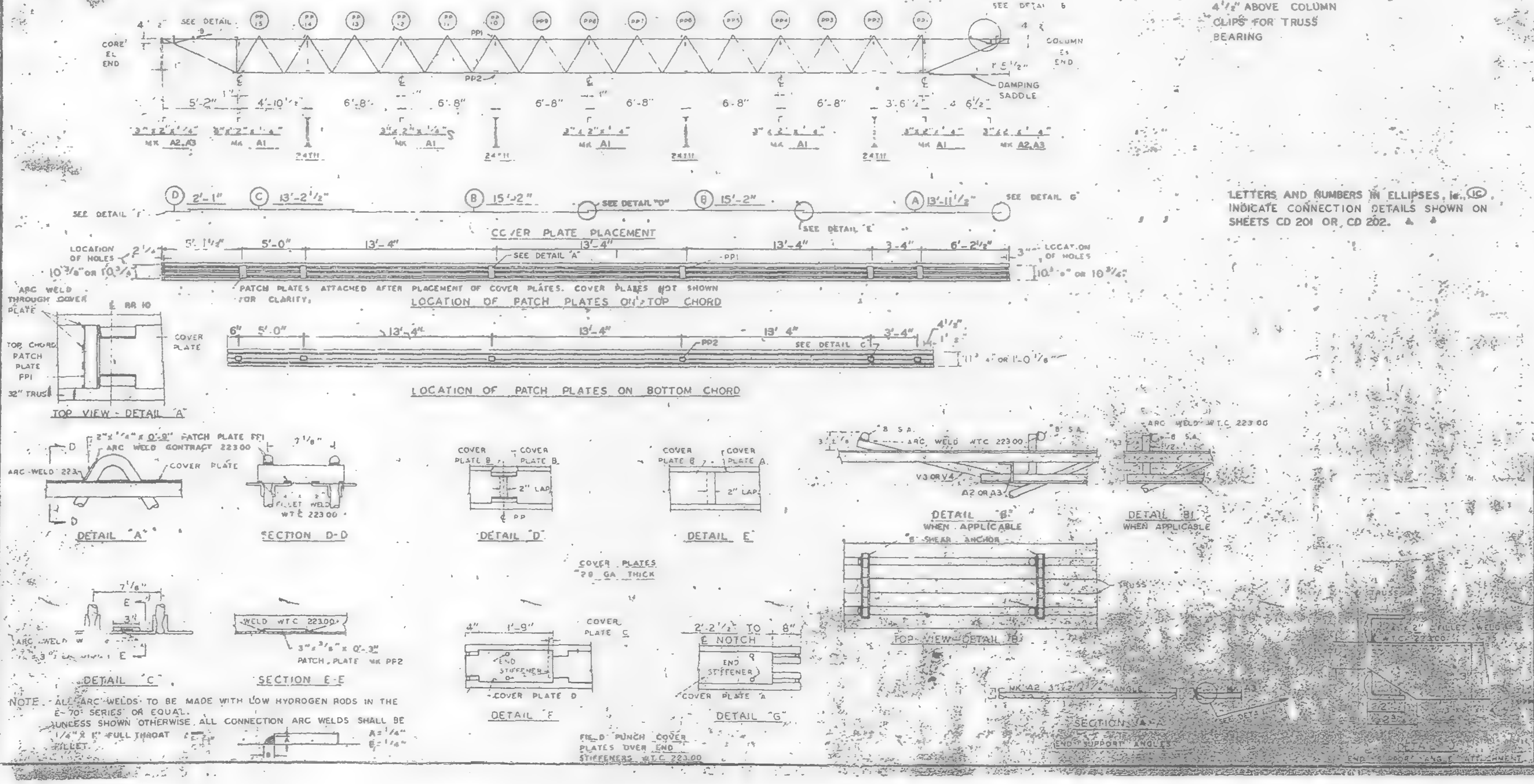
PANEL NO. A1C SIZE 20'-0" x 59'-8"


℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD 3 4" W.T.C. 223.00
5/16 ARC WELD MIN. 6" LONG W.T.C. 230.00
STUDS @ 8" O/C TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
F1
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T1A - 59'-8"	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	ST21
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	24	2"x1/16"x0'-9"	ST400
	PP2	24	3"x3/8"x0'-3"	ST400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x6 1/2"	ST400
	P2	8	4 1/2"x.30"x0'-9"	ST400
	P3	8	4 1/2"x.30"x1'-0"	ST400


SEE DETAIL B
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
PP1
PP2
5'-2"
4'-10 1/2"
6'-8"
3'-6 1/2"
24T11
MK A2, A3
MK A1
2'-1"
13'-2 1/2"
15'-2"
13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
SEE DETAIL "F"
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2"x1/16"x0'-9" PATCH PLATE PP1 ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE A
DETAIL "E"
COVER PLATES 20 GA THICK
DETAIL "B" WHEN APPLICABLE
#8 SHEAR ANCHOR
TOP VIEW - DETAIL "B"
DETAIL "B1" WHEN APPLICABLE
V3 OR V4
A2 OR A3
ARC WELD W.T.C. 223.00
DETAIL "C"
WELD W.T.C. 223.00
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8" ℄ NOTCH
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
A = 1/4"
B = 1/4"

LETTERS AND NUMBERS IN ELLIPSES, ie. ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. - ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" x B" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

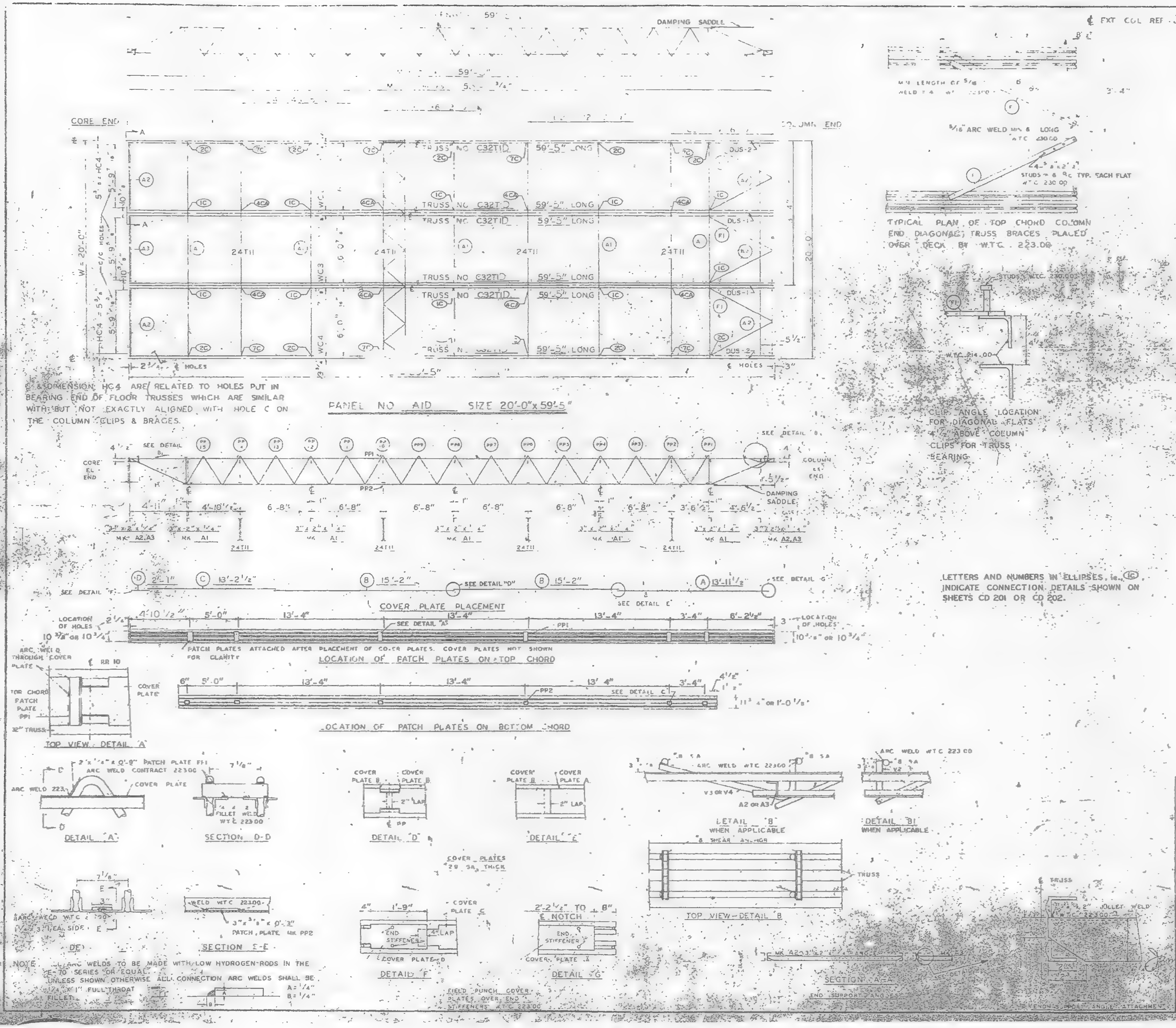
REF DRWG		
	7-AB4-3, 3.1 & 39	1-3-68
	7-AB4-15 & 16	5-6-68
	7-AB4-41	1-3-68
	SA-124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-15-68
	7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]
PANEL A1C - 20'-0" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 10/15/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11, 1968	IN CHARGE OF PROD. DIV.
DETAILED BY A. WEBER	LACLEDE STEEL CO	FABRICATING CONT. NO. W.T.C. 221	SHEET NO. FP A1C


DAMPING SADDLE
℄ EXT COL REF LINE
CORE END
COLUMN END
TRUSS NO C32T1D 59'-5" LONG
24T11
WC3
WC4
HC4
W = 20'-0"
20'-0"
2 1/4" ℄ HOLES
℄ HOLES
DUS-1
DUS-2
PANEL NO AID SIZE 20'-0" x 59'-5"
SEE DETAIL B1
SEE DETAIL B
CORE EL END
COLUMN EL END
PP1
PP2
DAMPING SADDLE
4'-11"
4'-10 1/2"
6'-8"
3'-6 1/2"
MK A2,A3
MK A1
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL A
SEE DETAIL C
ARC WELD THROUGH COVER PLATE
FOR CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL A
2"x1/4"x 0'-9" PATCH PLATE FF1 ARC WELD CONTRACT 223.00
ARC WELD 223
DETAIL A
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL D
DETAIL E
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL B
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
COVER PLATES 28 GA. THICK
TOP VIEW-DETAIL B
TRUSS
ARC WELD W.T.C. 2.90
1/4" x 3" EA. SIDE
WELD W.T.C. 223.00
3"x3/8"x 0'-3" PATCH PLATE MK PP2
SECTION E-E
4"
1'-9"
COVER PLATE C
END STIFFENER
4" LAP
COVER PLATE D
DETAIL F
2'-2 1/2" TO 8"
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
SECTION A-A
5/16" ARC WELD
4-5/8"x2 1/2" STUDS @ 8" C TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
F1

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL; TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (IC) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D - 59'-	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'-1"	ST211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1/2"x5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x 0'-9"	ST 400
	PP2	24	3"x3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST299
CONNECTION BAR	CB1	8	1"ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

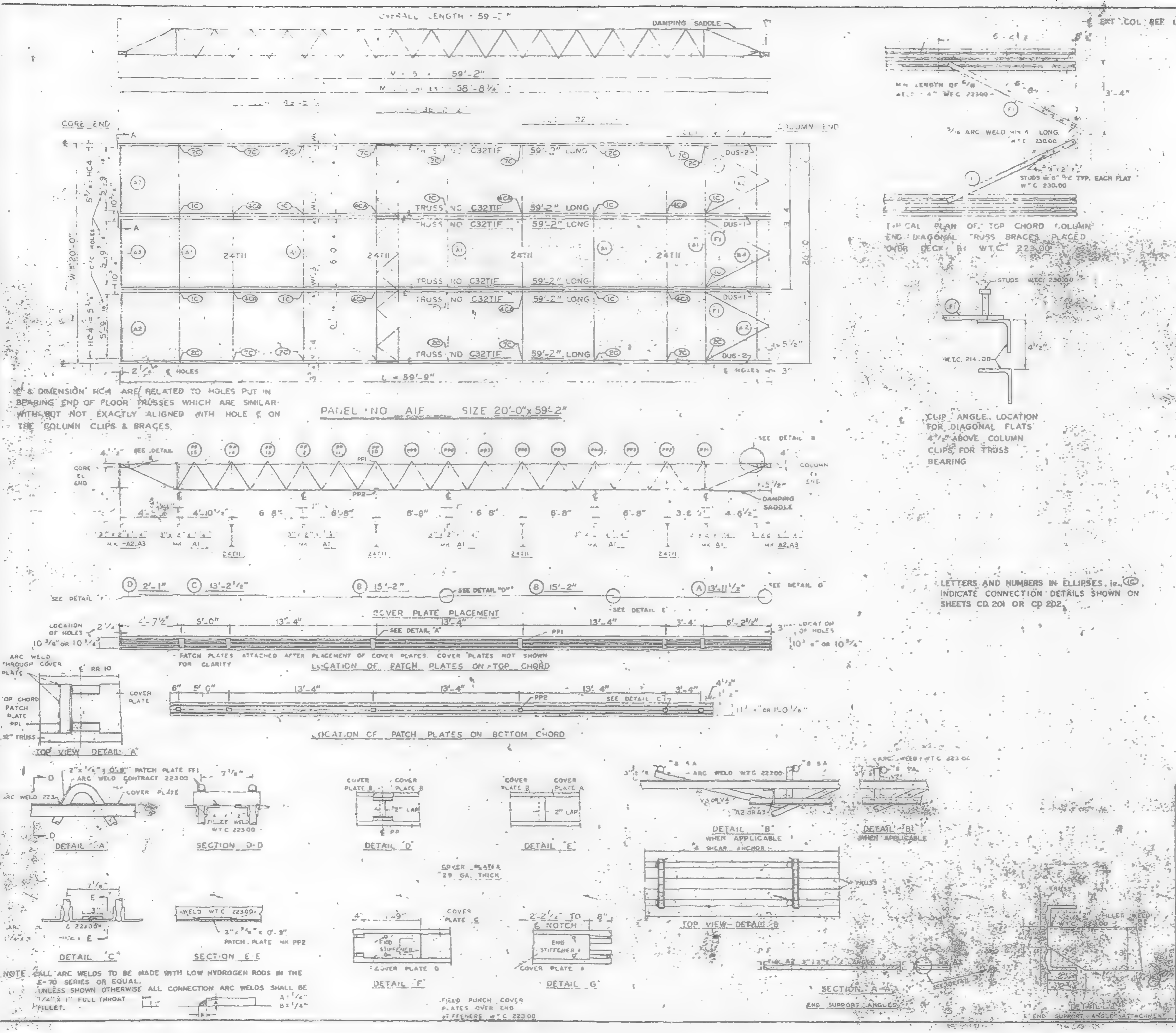
REF DRWG	
7-AB4-3,3.1 & 39	1-3-68
7-AB4-15 & 16	8-6-68
7-AB4-41	1-3-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81 82 (N)
PANEL AID - 20'-0" x 59'-5"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 6/18/68	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP AID


OVERALL LENGTH - 59'-2"
DAMPING SADDLE
EXT. COL. SEE LINE
CORE END
COLUMN END
TRUSS NO C32TIF 59'-2" LONG
24TII
DUS-1
DUS-2
L = 59'-9"
℄ HOLES
CORE EL END
COLUMN EL END
DAMPING SADDLE
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
3"x3/8"x 0'-3" PATCH PLATE MK PP2
COVER PLATES 29 GA. THICK
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00
5/16 ARC WELD MIN. 4 LONG W.T.C. 230.00
STUDS @ 6" O.C. TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO AIF SIZE 20'-0"x 59'-2"

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIF	6	C32TIF - 59'-2"	ST201F
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	BT211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST403
	A3	2	3"x2"x1/4"x 5'-1 3/4"	ST401
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135 x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	8	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

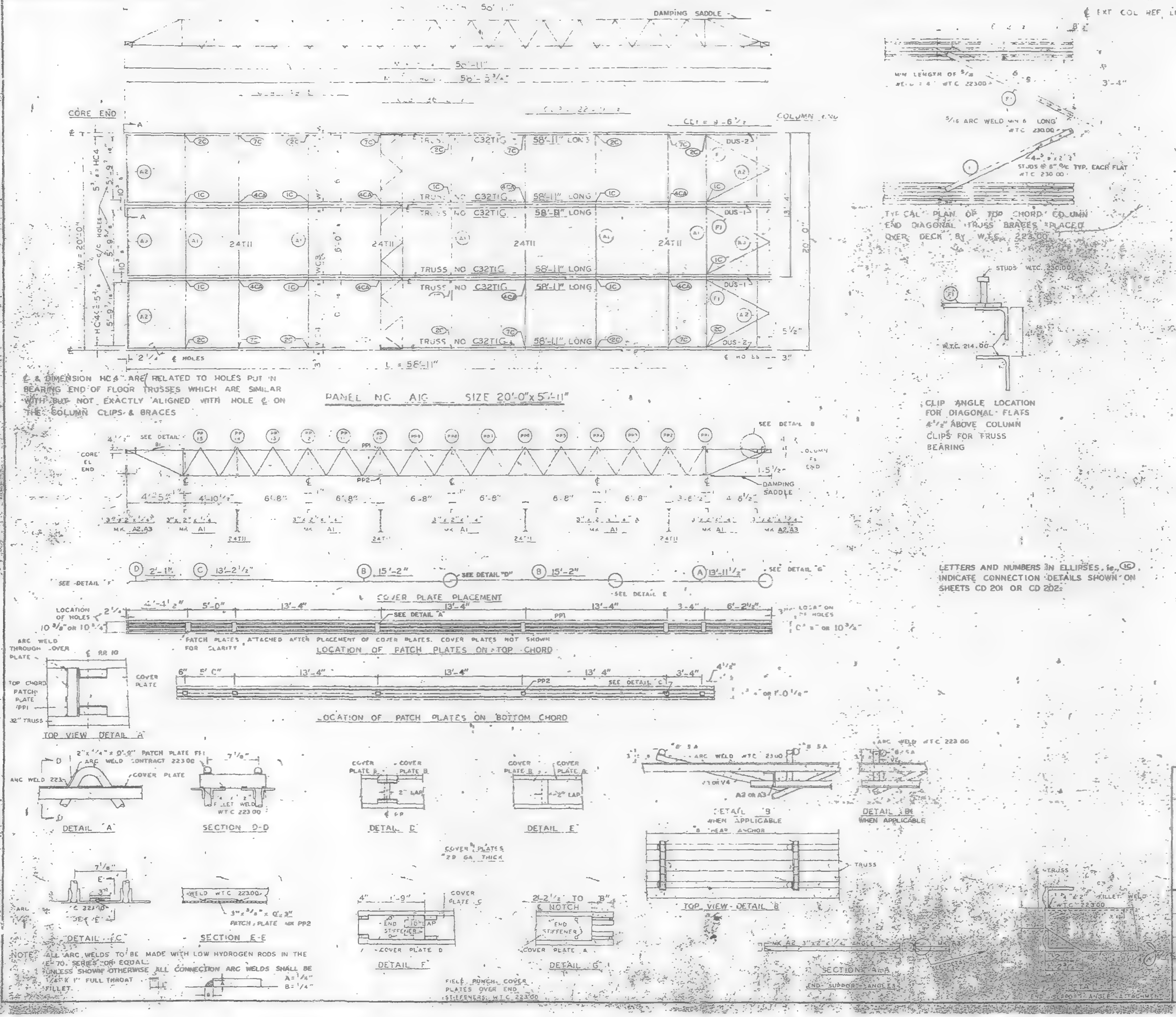
REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-66
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY.

BLDG. A FLOORS 47-48(N&S) 70-71(N)
PANEL AIF - 20'-0" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A	DATE 10/18/68	DRAWN BY DATE FEB 24 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 11 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. C. WEBER		FABRICATION CONT. NO W.T.C 221	SHEET NO FP AIF


DAMPING SADDLE
50'-1"
58'-11"
50'-3 3/4"
CORE END
COLUMN END
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-8" LONG
24T11
DUS-1
DUS-2
W=20'-0"
HC4
5 1/2"
2 1/4"
℄ HOLES
L = 58'-11"
PANEL NO A1C SIZE 20'-0" x 58'-11"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES
CORE EL END
SEE DETAIL B1
SEE DETAIL B
COLUMN EL END
1 5/2"
DAMPING SADDLE
PP1
PP2
4'-5 5/8"
4'-10 1/2"
6'-8"
3"x 2"x 1/4" MK A2,A3
3"x 2"x 1/4" MK A1
24T11
D 2'-1"
C 13'-2 1/2"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
℄ COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
4'-4 1/2"
5'-0"
13'-4"
3'-4"
6'-2 1/2"
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
℄ RR 10
TOP CHORD
PATCH PLATE (PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2"x 1/4" x 0'-9" PATCH PLATE FH
ARC WELD CONTRACT 22300
ARC WELD 223
COVER PLATE
DETAIL "A"
7 1/8"
FILLET WELD W.T.C 223.00
SECTION D-D
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE A
DETAIL "E"
COVER PLATES 28 GA THICK
E
3"
DETAIL "C"
WELD W.T.C 223.00
3"x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
4"
1'-9"
COVER PLATE C
END STIFFENER
10" LAP
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
#8 SA
ARC WELD W.T.C 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL "B"
MK A2 3"x 2"x 1/4" ANGLE
MK A3
SECTION A-A
END SUPPORT ANGLES
2"x 2" FILLET WELD W.T.C 223.00
DETAIL
END SUPPORT ANGLE ATTACHMENT
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD = 4" W.T.C 22300
3'-4"
5/16 ARC WELD MIN 6" LONG W.T.C 230.00
4-5/8" x 2" STUDS @ 8" O/C TYP. EACH FLAT W.T.C 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
A= 1/4"
B= 1/4"

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1C	6	C32T16 - 58'-11"	ST206
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	81211
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	4	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x 2"x 1/4"x 5'-11 3/4"	ST 401
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x .0135"x 13'-11 1/2"	ST303
	B	8	9"x .0135"x 15'-2"	ST303
	C	4	9"x .0135"x 13'-2 1/2"	ST303
	D	4	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 6 1/2"	ST 400
	P2	8	4 1/2"x .39"x 0'-9"	ST 400
	P3	8	4 1/2"x .39"x 1'-0"	ST 400

NO.	DATE	REVISION	BY

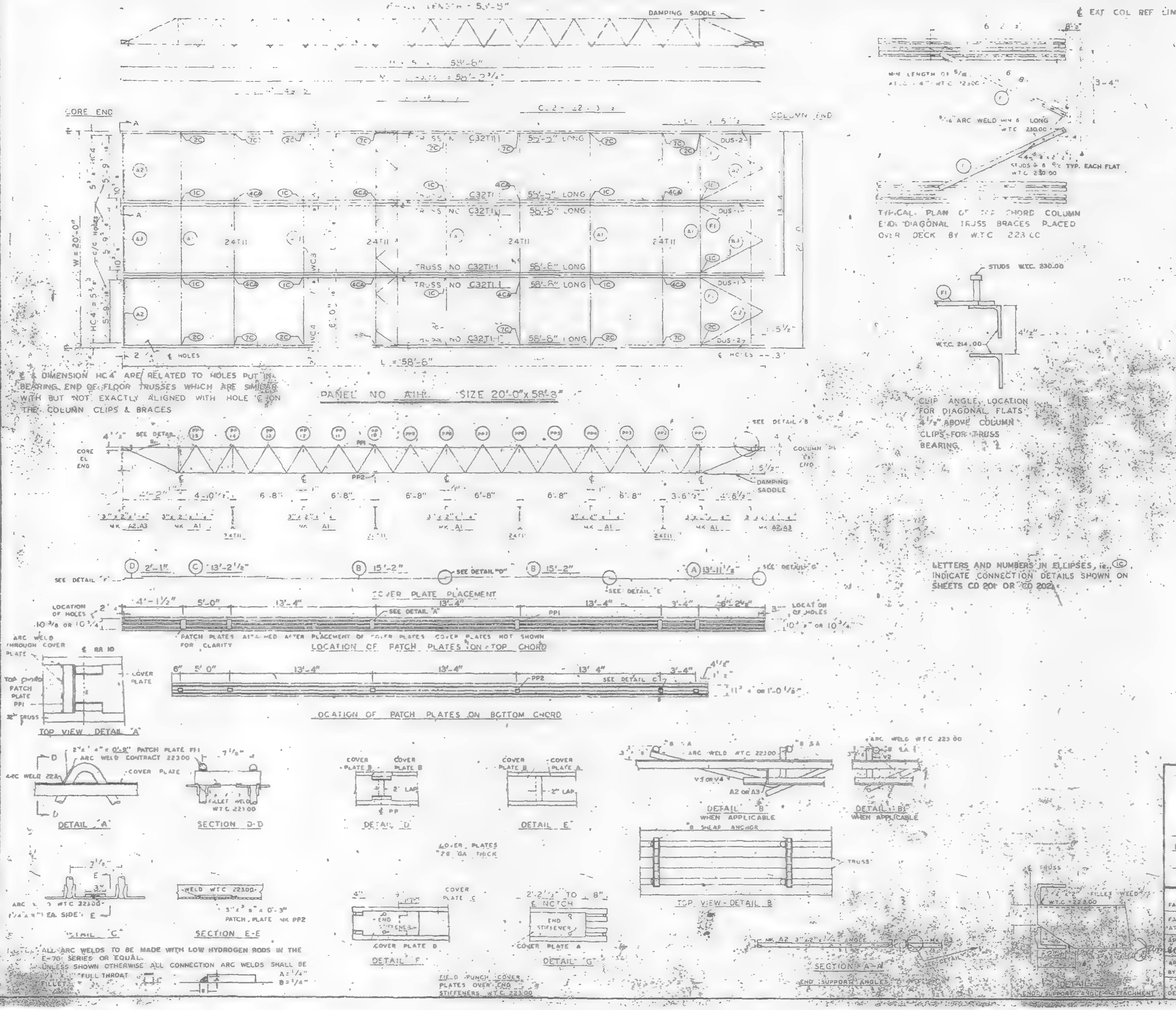
REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39(N)
69 (NORTH) PANEL A1C - 20'-0" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 0/18/68	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 1, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO W.T.C. 221	SHEET NO. FP A1C


DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T11 55'-5" LONG
TRUSS NO C32T11 58'-6" LONG
24T11
W = 20'-0"
L = 58'-6"
PANEL NO A1H SIZE 20'-0" x 58'-8"
CORE EL END
COLUMN EL END
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL "A"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL C
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
3"x3/8"x 0'-3" PATCH PLATE MK PP2
COVER PLATES 20 GA THICK
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 22300
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 ARC WELD W.T.C 22300
TYPICAL PLAN OF THE CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	6	C32T1H - 5[illegible]	ST201
BRIDGING TRUSSES	T11	4	24T11 - 19'[illegible]	[illegible]
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-[illegible]	ST403
	A2	4	3"x2"x1/4"x5'-[illegible]	ST403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST403
DIAGONAL FLATS	F1	6	1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4"x0'-9"	ST 400
	PP2	24	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x13'-11 1/2"	ST303
	B	8	9"x.0135"x15'-2"	ST303
	C	4	9"x.0135"x13'-2 1/2"	ST303
	D	4	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-2	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	8	1"#x1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x3/8"x8 1/2"	ST 400
	P2	8	4 1/2"x.30"x0'-9"	ST 400
	P3	8	4 1/2"x.30"x1'-0"	ST 400

	DATE	REVISION		BY

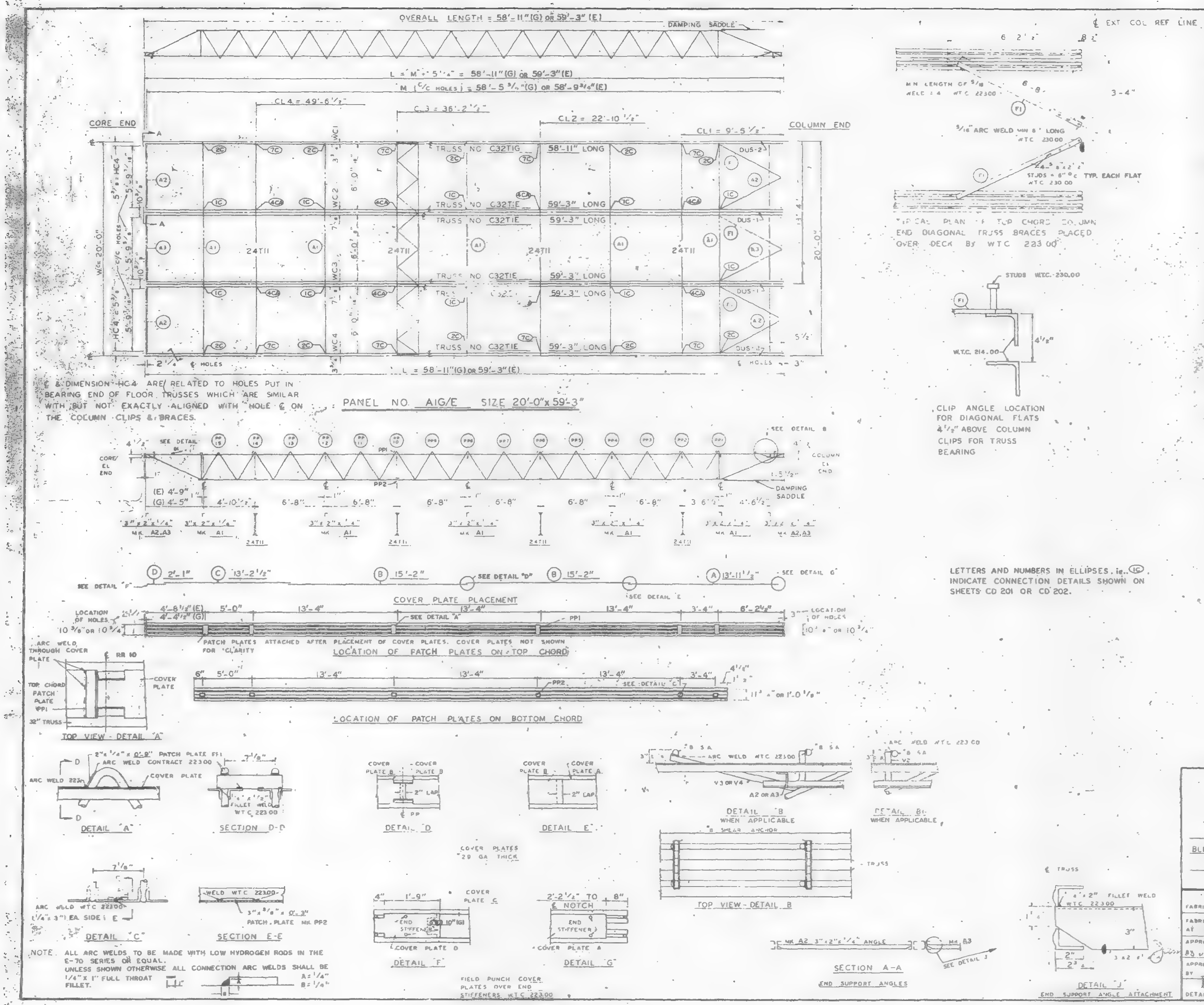
REF DRWG		
	7-AB4-3,3,1 & 38	1-3-68
	7-AB4-15 & 16	9-6-68
	7-AB4-41	1-3-68
	SA-124	10-20-67
	7-AB3-2	1-3-68
	7-AB1-2	2-15-68
	7-A92-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL A1H - 20'-0" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-3 4-1-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A	DATE 10/18/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT. 11, 1968	IN CHARGE OF PROD. [illegible]
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO W.T.C 221	SHEET [illegible] FP-A1H


OVERALL LENGTH = 58'-11" (G) OR 59'-3" (E)
DAMPING SADDLE
L = M + 5¼" = 58'-11" (G) OR 59'-3" (E)
M (C/C HOLES) = 58'-5¾" (G) OR 58'-9¾" (E)
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-5½"
CORE END
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIE 59'-3" LONG
24T11
20'-0"
2¼" ℄ HOLES
L = 58'-11" (G) OR 59'-3" (E)
CORE/EL END
COLUMN EL END
DAMPING SADDLE
(E) 4'-9"
(G) 4'-5"
4'-10½"
6'-8"
3"x2"x¼" MK A2, A3
3"x2"x¼" MK A1
24T11
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD = 4 WTC 22300
5/16" ARC WELD MIN 6" LONG WTC 230.00
4-5/8" x 2½" STUDS @ 6" O.C. TYP. EACH FLAT WTC 230.00
STUDS WTC 230.00
WTC 214.00
4½"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. AIG/E SIZE 20'-0" x 59'-3"

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET. A = ¼" B = ¼"

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	5	C32TIE - 59'-3"	ST20 E
	TIG	1	C32TIG - 58'-11"	ST201G
BRIDGING TRUSSES	T11	4	24T11 - 19'-1"	8T211
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x ¼"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST303
	B	8	9"x.0135"x 15'-2"	ST 303
	C	4	9"x.0135"x 13'-2½"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3½"x3½"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x 3/8" x 8½"	ST 400
	P2	8	4½" x .38" x 0'-9"	ST 400
	P3	8	4½" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
△	7-12-68	GENERAL	T.M.C.

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

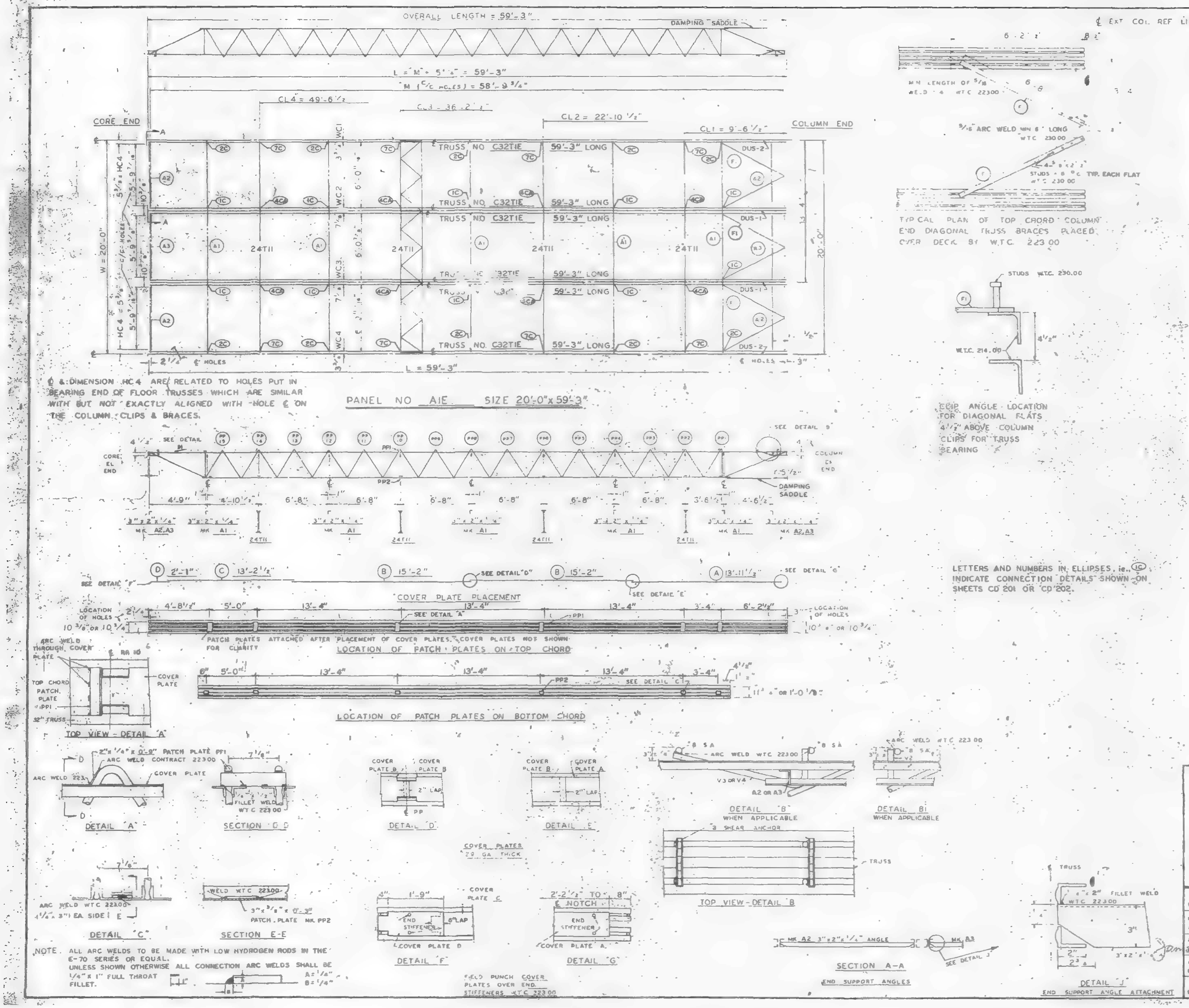
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH)

PANEL AIG/E- 20'-0" x 59'-3"

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-4 4-1-68 PLATE	
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 8/16/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL DETAILED BY A C WEBER		FABRICATION CONT. NO. W T C 201	SHEET NO FP AIG/E


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = "M" + 5 1/4" = 59'-3"
"M" (C/C HOLES) = 58'-9 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32TIE
59'-3" LONG
24TII
W = 20'-0"
HC4
WC1
WC2
WC3
WC4
DUS-1
DUS-2
℄ HOLES
L = 59'-3"
PANEL NO AIE SIZE 20'-0" x 59'-3"
SEE DETAIL
CORE EL END
COLUMN EL END
DAMPING SADDLE
MK A2, A3
MK A1
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
COVER PLATES 28 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
℄ EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
STUDS W.T.C. 230.00
W.T.C. 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	TII	4	24TII - 19'-11"	B1211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x 1/4"x 0'-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11 1/2"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2 1/2"	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 403
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2"x 3/8"x 6 1/2"	ST 400
	P2	8	4 1/2"x .30"x 0'-9"	ST 400
	P3	8	4 1/2"x .30"x 1'-0"	ST 400

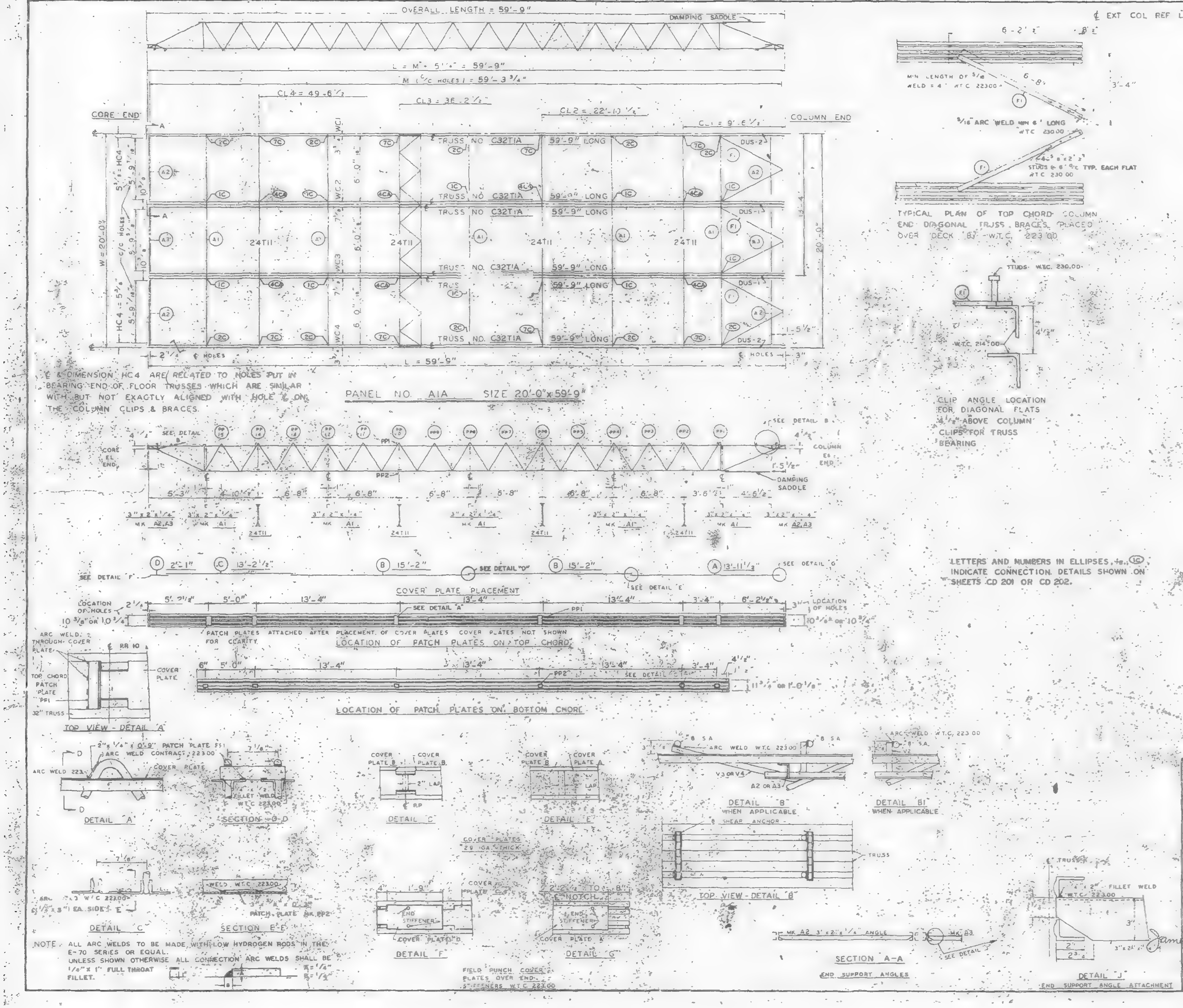
△	7-12-68	GENERAL	T.M.C.
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3, 3.1 & 30	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)
PANEL AIE - 20'-0" x 59'-3"

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 8/16/68
DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP AIE


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = M + 5'¼" = 59'-9"
M (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 ½
CL3 = 38'-2 ½"
CL2 = 22'-10 ½"
CL1 = 9'-6 ½
CORE END
COLUMN END
TRUSS NO. C32T1A 59'-9" LONG
24T11
DUS-2
DUS-1
W = 20'-0¼
HC4 = 5'-9
20'-0"
L = 59'-9"
2 ¼ ℄ HOLES
℄ HOLES 3"
PANEL NO. A1A SIZE 20'-0"x59'-9"
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
3"x2"x¼" MK A2,A3
3"x2"x¼" MK A1
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
D 2'-1"
C 13'-2½"
B 15'-2"
A 13'-11½"
COVER PLATE PLACEMENT
LOCATION OF HOLES
SEE DETAIL "A"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "C"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD = 4" W.T.C. 22300
5/16" ARC WELD MIN 6" LONG W.T.C. 230.00
STUDS @ 6" C/C TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 ½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59-9'	ST201A
BRIDGING TRUSSES	T11	4	24T11 - 19'-11"	BT211
3"x2"x¼" ANGLE	A1	5	3"x2 x ¼"x 9'-11"	ST 403
	A2	4	3"x2"x ¼"x 5'-11 9/16	ST 403
	A3	2	3"x2"x ¼"x 5'-11 3/4"	ST 401
DIAGONAL FLATS	F1	6	½"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x ¼"x 0-9"	ST 400
	PP2	24	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	4	9"x.0135"x 13'-11½"	ST303
	B	8	9"x.0135"x 15'-2"	ST303
	C	4	9"x.0135"x 13'-2½	ST303
	D	4	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	16	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x3/8"x3'-6 7/8	ST 298
	DUS-2	2	3½"x3½"x3/8"x3'-6 7/8	ST 298
CONNECTION BAR	CB1	8	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3½" x 3/8" x 8½"	ST 400
	P2	8	4½" x .39" x 0'-9"	ST 400
	P3	8	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	7-12-68	GENERAL	T.M.C.

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

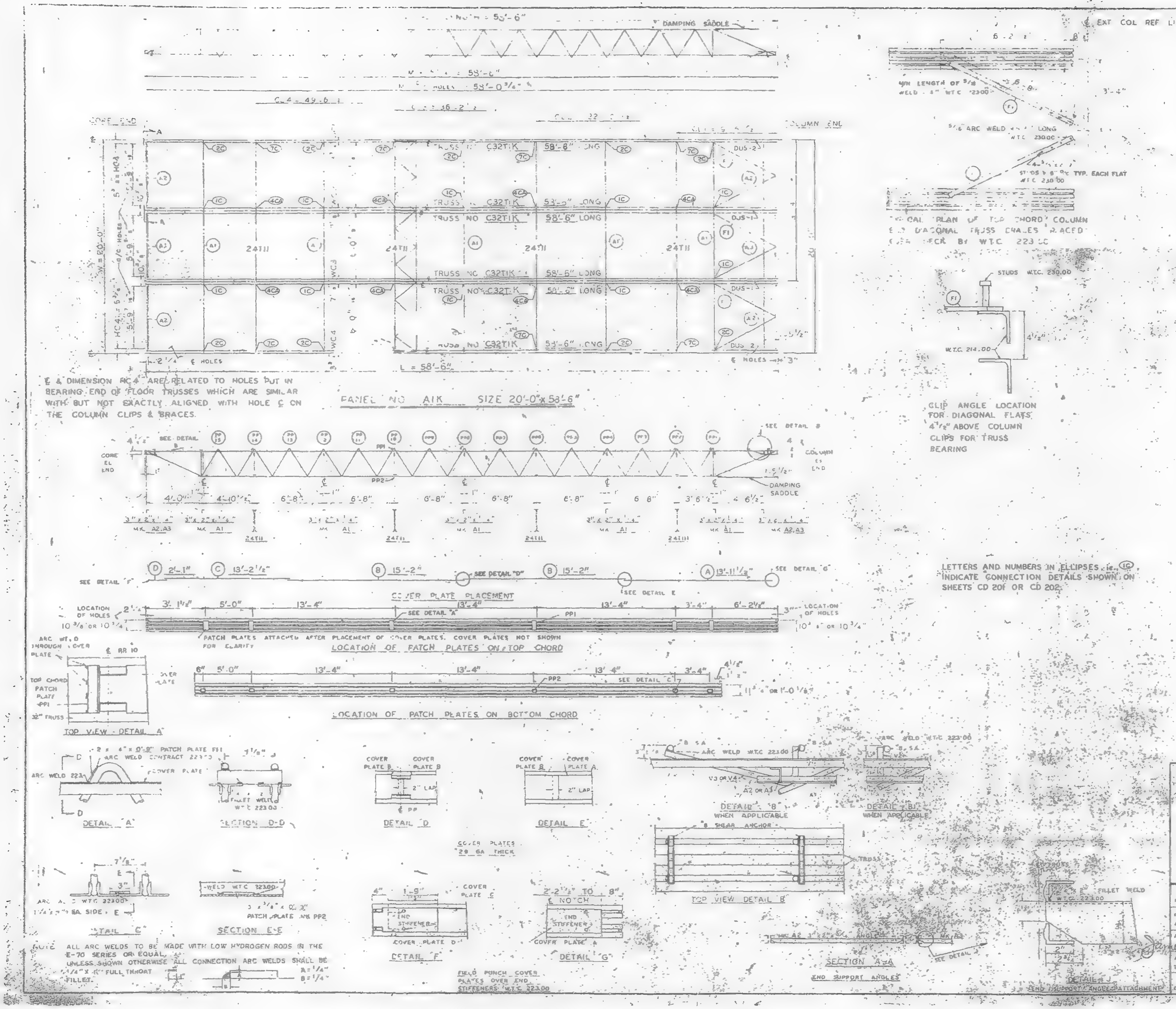
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68, 69 (NORTH)
PANEL A1A - 20'-0" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68	PLATE
APPROVED FOR FABRICATION BY James W. White FOR PONYA	DATE 5/16/68	DRAWN BY J.L. DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP A1A

LACLEDE STEEL CO.


DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32TIK 58'-6" LONG
24TII
PANEL NO AIK SIZE 20'-0"x58'-6"
L = 58'-6"
€ HOLES
CORE EL END
COLUMN EL END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
3 x 3/8" x 0'-3" PATCH PLATE MK PP2
COVER PLATES 28 GA THICK
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED ON DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
€ EXT COL REF LINE

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X [illegible] FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	6	C32T1 - 5[illegible]	ST20[illegible]
BRIDGING TRUSSES	T11	4	24T11 [illegible]	[illegible] 211
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4" x 19'-11"	ST 4[illegible]
	A2	4	3"x2"x1/4" x 5'-11 9/16"	ST 4[illegible]
	A3	2	3"x2"x1/4" x 5'-11 3/4"	ST 4[illegible]
DIAGONAL FLATS	F1	6	1/2"x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	24	2"x1/4" x 3'-[illegible]	ST 400
	PP2	24	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9"x .0135" x 13'-11 1/2"	ST303
	B	8	9"x .0135" x 15'-2"	ST303
	C	4	9"x .0135"x 13'-2 1/2"	ST303
	D	4	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1 1/2"x 1/4"x 0-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

RECEIVED

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3,3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8	2-15-68

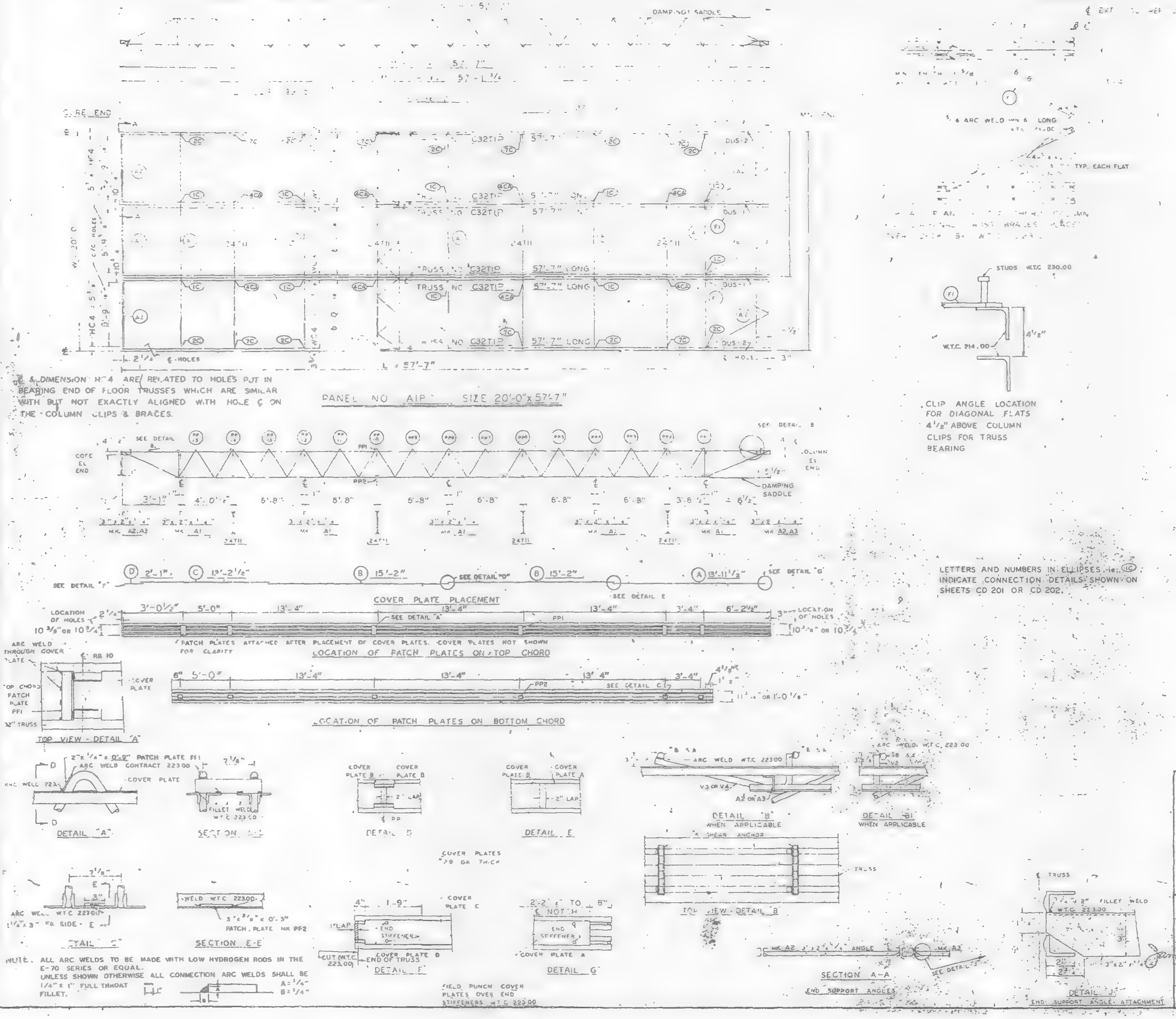
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]

PANEL AIK - 20'-0" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE	
APPROVED FOR FABRICATION James W. [illegible] FOR P.O.N.Y.A.	DATE 10/9/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T. CHURA DATE OCT 1, 1968	IN CHARGE OF PROD. [illegible]
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO W T C 221	SHEET NO FP AIK


PANEL NO AIP SIZE 20'-0"x57'-7"
CORE END
TRUSS NO C32T1P 57'-7" LONG
L = 57'-7"
¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.
DAMPING SADDLE
COLUMN END
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION
DETAIL B
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
COVER PLATES 29 GA THICK
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T1	6	C32T1P - 57'	ST20 P
BRACING TRUSSES	T1	4	24T11 - 19	B 2
3 x 2 x 1/4 ANGLE	A1	5	3 x 2 x 1/4 x 9 11	4
	A2	4	3 x 2 x 1/4 x 5-11 9/16	4 3
	A3	2	3 x 2" x 1/4 x 5-11 3/4	ST 4
DIAGONAL FLATS	F	8	2 x 5/8 x 6-8	ST 400
PATCH PLATES	PP1	24	2" x 1/4" x 0-9	ST 400
	PP2	24	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	4	9" x .0135 x 13'-1 1/2	ST303
	B	8	9" x .0135" x 15'-2"	ST 303
	C	4	9" x .0135" x 13'-2 1/2	ST 303
	D	4	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	24	2" x 1 1/2 x 1/4 x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	7	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	8	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	10	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	8	4 1/2" x .39" x 0'-9"	ST 400
	P3	8	4 1/2" x .39" x 1'-0"	ST 400

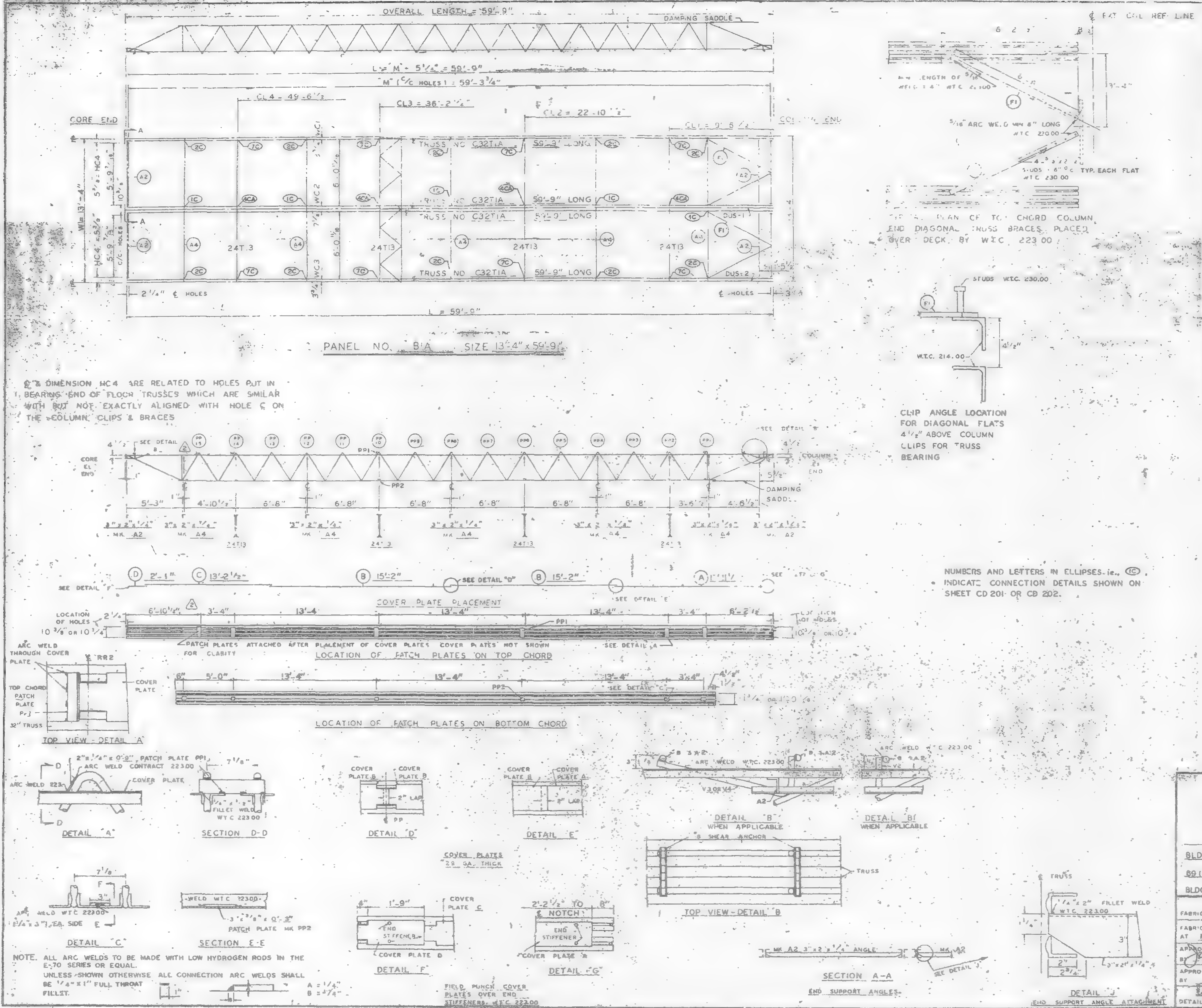
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	3-6-68
7-AB4 41	1-3-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74(N)
PANEL AIP - 20'-0" x 57'-7"

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-3 4-1-68 PLATE
APPROVED FOR FABRICATION James W. White FOR P.O.N.Y.A. DATE 10/18/68
DRAWN BY
DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO.
CHECKED BY T. CHUBA
DATE OCT. 11, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO. W T C 221
SHEET NO FP AIP


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L + M + 5 1/4" = 59'-9"
M (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/4"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1A 59'-9" LONG
24T13
DUS-1
DUS-2
2 1/4" ℄ HOLES
℄ HOLES
L = 59'-9"
PANEL NO. B1A SIZE 13'-4" x 59'-9"
SEE DETAIL B
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6" 4'-6 1/2"
MK A2
MK A4
COVER PLATE PLACEMENT
SEE DETAIL F
SEE DETAIL D
SEE DETAIL E
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B' WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A END SUPPORT ANGLES
DETAIL J END SUPPORT ANGLE ATTACHMENT
COVER PLATES 22 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
A = 1/4"
B = 1/4"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	[illegible]	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A 59'-9"	ST 201A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	4	[illegible]	ST 403
	A4	5	[illegible]	ST 403
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	[illegible]	ST 400
COVER PLATES	A	2	9" x .0135" x [illegible]	[illegible]
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
8" SHEAR ANCHOR	SA2	8	[illegible] REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x [illegible]	ST 298
	DDS-2	1	3 1/2" x 3 1/2" x 3/8" x [illegible] 7/8"	ST 298
CONNECTION BAR	CBN	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	G.D.C.
1	7-15-68	GENERAL	T.M.C.

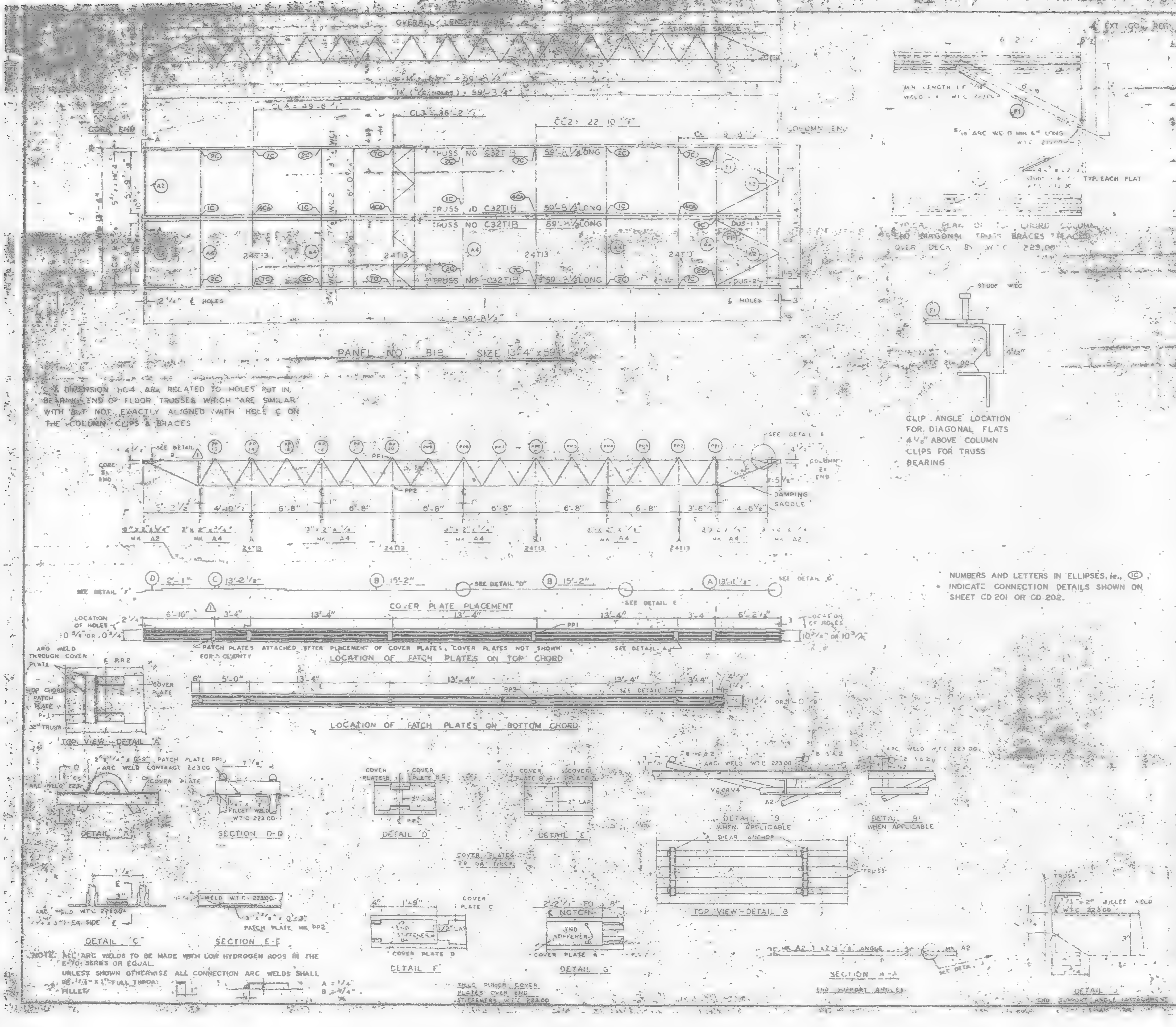
2 REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-23-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) [illegible] , [illegible]-69 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5	PLATE
APPROVED FOR FABRICATION BY James White For P.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.B. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP B1A


OVERALL LENGTH
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T13 59'-8 1/2" LONG
TRUSS NO C32T18 59'-8 1/2" LONG
TRUSS NO C32T18 59'-8 1/2" LONG
TRUSS NO C32T13 59'-8 1/2" LONG
24T13
DUS-1
DUS-2
PANEL NO. B18 SIZE 13'-4" x 59'-8 1/2"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES, COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL 9 WHEN APPLICABLE
DETAIL B' WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A END SUPPORT ANGLES
DETAIL J END SUPPORT ANGLE ATTACHMENT
COVER PLATES .29 GA. THICK
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
EXT. COL. REF. LINE
TYP. EACH FLAT

℄ & DIMENSION HC-4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET

A = 1/4"
B = 3/4"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	P[illegible]	SIZE	REF. DWG.
FLOOR TRUSSES	T18	4	C32T 59'-8 1/2"	ST 401
BRIDGING TRUSSES	T13	4	24T 3 [illegible]	ST 214
3 x 2 x 1/4 ANGLE	A2	4	[illegible]	ST 403
	A4	5	3 3 4 [illegible]	ST 403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	2" x [illegible]	400
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x 0.35" x 3'-11 1/2"	ST 303
	B	4	9" x 0.35" x 15'-2"	ST 303
	C	2	9" x 0.35" x 13'-2 1/2"	ST 303
	D	2	9" x 0.35" x 2'-1"	ST 303
ANGLE CLIPS	C1	6	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
8 SHEAR ANCHOR	SA2	8	8 REBAR x 0'-4	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" R x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

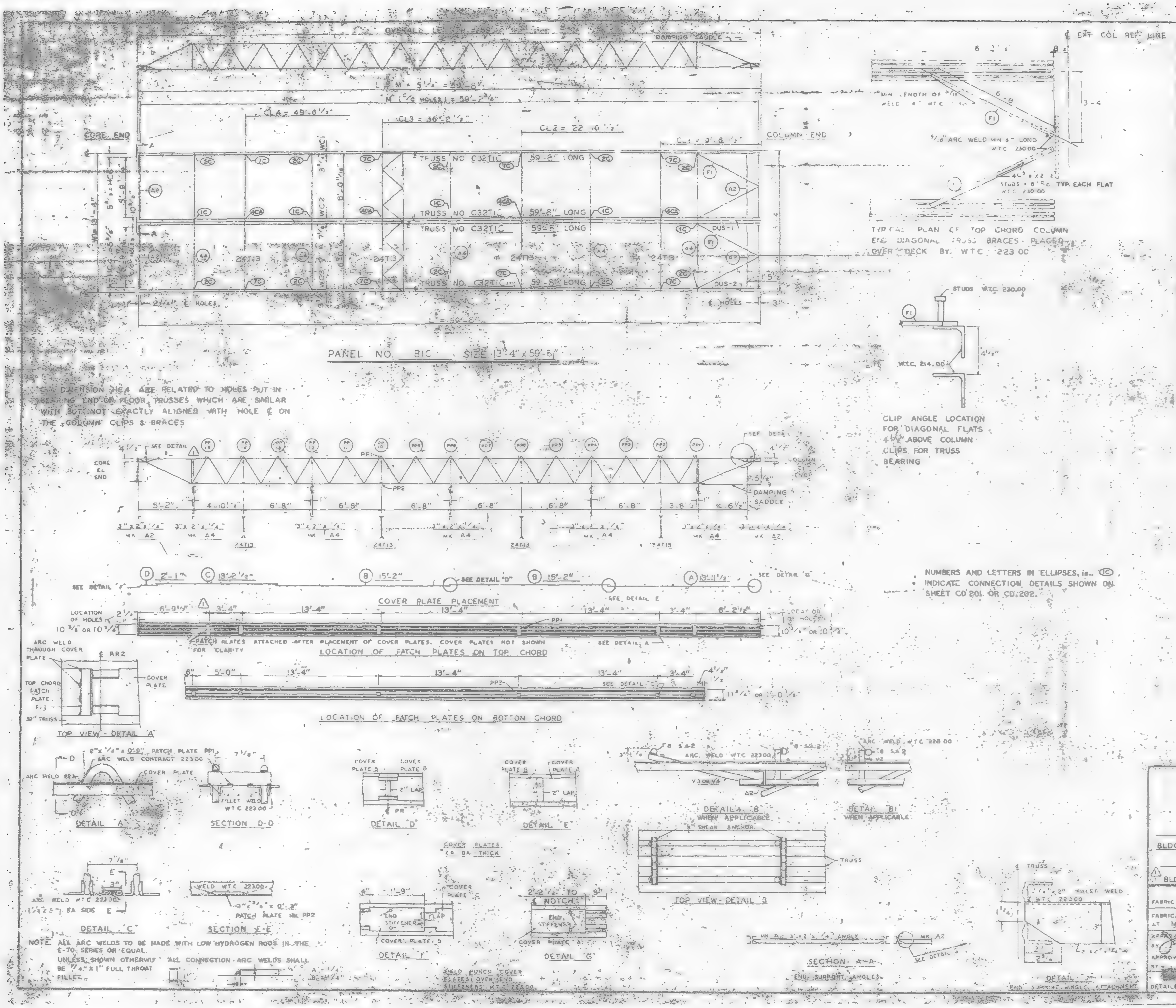
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	GDC

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
7A-AB2-4 1-6-69
7-AB3-2 1-3-68
7 AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)
PA [illegible] 4" x 59'-8 1/2"
BLDG. B FLOORS 83-91, 93-106 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White [illegible] DATE 1/2/70
REF. DRAWING [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE OCT 5 1968
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B18 [illegible]


OVERALL LENGTH
DAMPING SADDLE
℄ EXT COL REF LINE
CORE END
COLUMN END
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 3'-6 1/2"
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
24T13
DUS-1
DUS-2
L = 59'-8"
PANEL NO. B1C SIZE 13'-4" x 59'-8"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
5/16" ARC WELD MIN 8" LONG WTC 230.00
STUDS @ 6" C/C TYP. EACH FLAT WTC 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CORE EL END
SEE DETAIL B
COLUMN END
DAMPING SADDLE
5'-2"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6 1/2"
3" x 2" x 1/4" MK A2
3" x 2" x 1/4" MK A4
24T13
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL E
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PP1
PP2
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
COVER PLATE
32" TRUSS
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL B
SECTION A-A END SUPPORT ANGLES
DETAIL END SUPPORT ANGLE ATTACHMENT
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
FILLET WELD WTC 223.00
ARC WELD WTC 22300
1 1/4" x 3" EA SIDE
WELD WTC 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
COVER PLATES 29 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
END STIFFENER
NOTCH
TRUSS
SHEAR ANCHOR
MK A2 3" x 2" x 1/4" ANGLE
A = 1/4"
B = 1/4"

DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T 59'-[illegible]	ST201
BRIDGING TRUSSES	T13	4	24T13 - [illegible]	BT213
3" x 2" x 1/4" ANGLE	A2	4	3 x 2 x [illegible]	ST403
	A4	5	3 x 2 x [illegible]	[illegible]403
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST4[illegible]
COVER PLATES	A	25	9" x .0135" x 15'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 3'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST296
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST296
CONNECTION BAR	CB1	4	1 1/8" x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

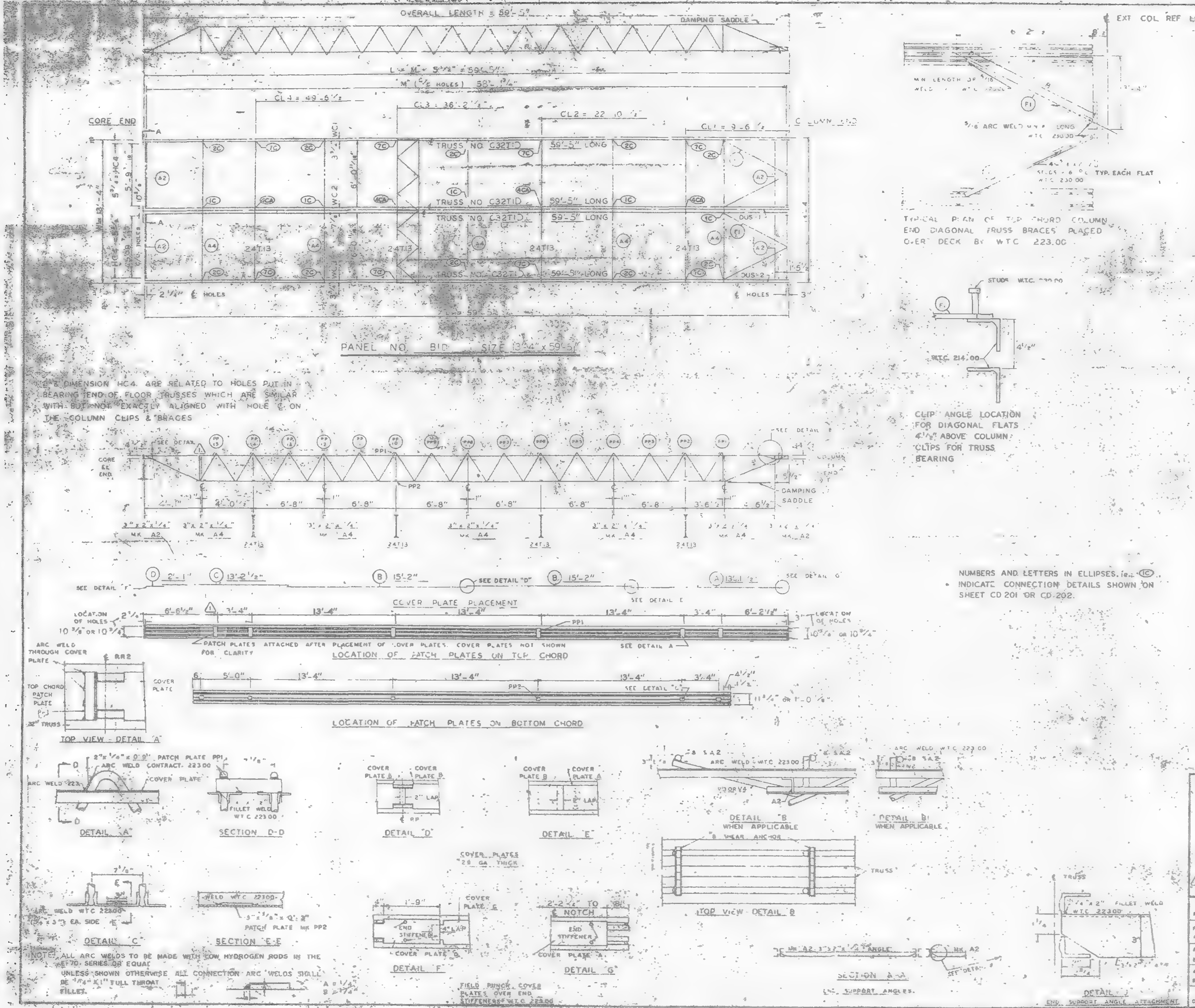
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	Gul

1 REF. DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA-24 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-[illegible], [illegible]-106
PANEL B1C - 13'-4" x 59'-8"
1 BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 PLATE
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968
IN CHARGE OF [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC 221
[illegible] FP B1C


OVERALL LENGTH = 59'-5"
DAMPING SADDLE
L = "M" - 5 1/2" = 59'-5 1/2"
"M" (C/L HOLES) 58'-1 1/2"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1D 59'-5" LONG
24T13
DUS-1
DUS-2
C/L HOLES
PANEL NO. B10 SIZE 13'-4" x 59'-5"
EXT COL REF LINE
MIN LENGTH OF 5/16 WELD WTC 21000
5/16 ARC WELD WTC 21000
TYP. EACH FLAT
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
STUDS WTC 220.00
WTC 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL
CORE END
PP1
PP2
4'-1"
6'-8"
3'-6 1/2"
6 1/2
DAMPING SADDLE
3"x2"x1/4" MK A2
3"x2"x1/4" MK A4
24T13
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL F
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8 OR 10 3/4
6'-6 1/2"
3'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223
DETAIL "A"
FILLET WELD WTC 223.00
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
#8 SA2
ARC WELD WTC 223.00
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
ARC WELD WTC 22300
EA SIDE
DETAIL "C"
COVER PLATES 28 GA. THICK
WELD WTC 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E
END STIFFENER
4" LAP
COVER PLATE B
DETAIL "F"
2'-2 1/2" TO
NOTCH
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
MK A2
SECTION A-A
END SUPPORT ANGLES
FILLET WELD WTC 22300
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
A = 1/4
B = 1/4

C/L & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C/L ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T1D 59'-5"	ST20
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x[illegible]	ST403
DIAGONAL FLATS	F1	4	1/2"x5/8"x[illegible]	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	[illegible]
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-5"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST400
CONNECTION PLATES	P1	8	3 1/2"x3/8"x8 1/2"	ST400
	P2	4	4 1/2"x.39"x0'-9"	ST400
	P3	4	4 1/2"x.39"x1'-0"	ST400

NO.	DATE	REVISION	BY
1	5-4-69	AS NOTED	[illegible]

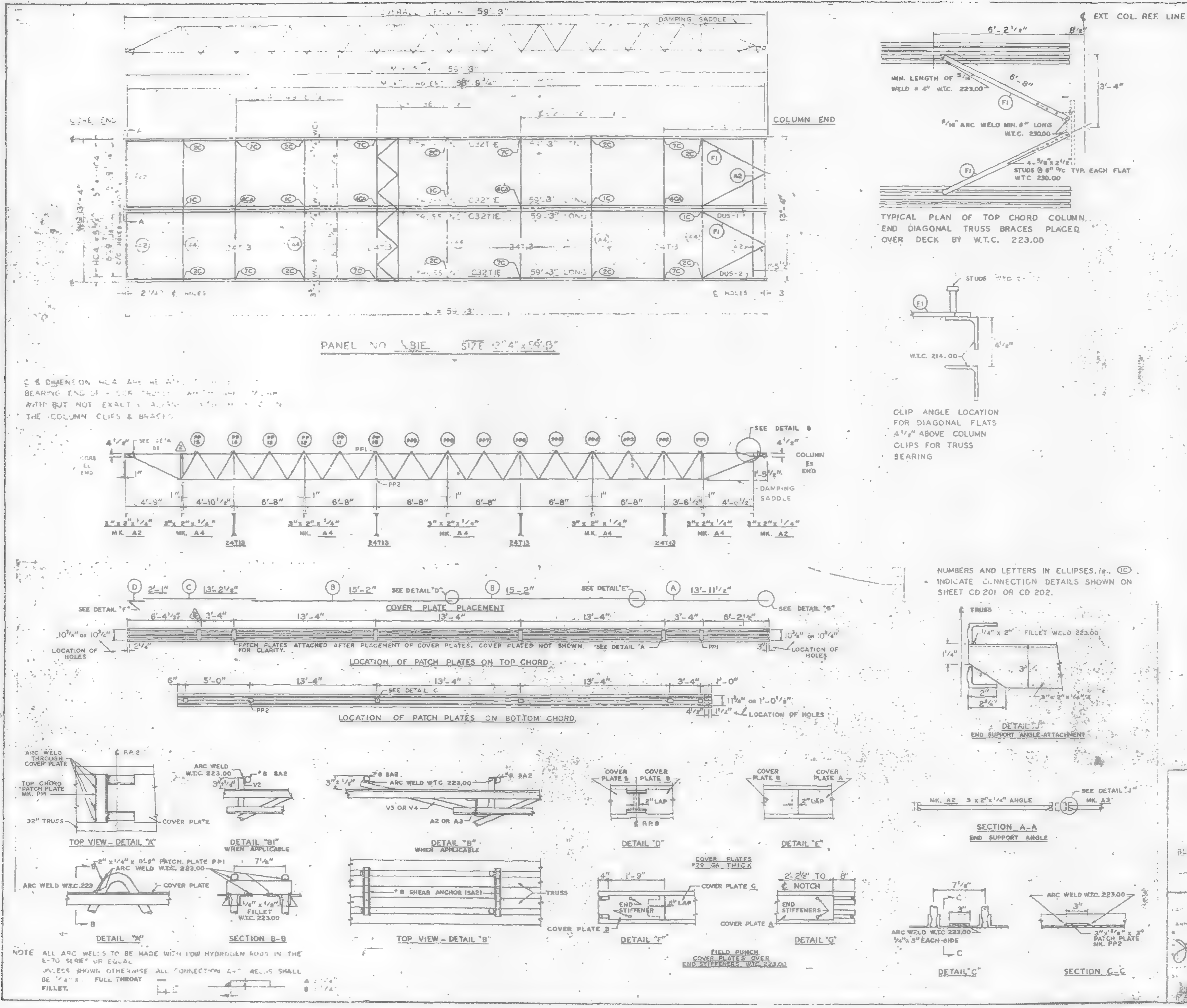
REF DRWG (1)

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 N
PANEL [illegible] 13'-4" x 59'-5"
(1) BLDG. B FLOORS 81-82 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5
PLATE
APPROVED FOR FABRICATION BY James White YA
DATE 1/2/70
DRAWN BY [illegible]
DATE [illegible] 1968
APPROVED FOR FABRICATION BY [illegible]
DATE
CHECKED BY [illegible]
DATE [illegible] 1968
IN CHARGE OF [illegible]
DETAILED BY A.C. [illegible]
FABRICATION CONT. NO. WTC 281
SHEET NO. FP B10


OVERALL LENGTH 59'-3"
DAMPING SADDLE
CORE END
COLUMN END
C32TIE
59'-3" LONG
24T13
DUS-1
DUS-2
2C
7C
1C
4CA
F1
A2
A4
2 1/4" ℄ HOLES
℄ HOLES
PANEL NO. BIE SIZE 13'-4" x 59'-3"
PANEL NO BIE SIZE 13'-4" x 59'-3"
℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223.00
5/16" ARC WELD MIN. 8" LONG W.T.C. 230.00
4-5/8" x 2 1/2" STUDS @ 6" O/C TYP. EACH FLAT W.T.C. 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C.
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL B
SEE DETAIL B1
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
PP1
PP2
4 1/2"
1"
4'-9"
4'-10 1/2"
6'-8"
3'-6 1/4"
4'-0 1/2"
1 5/8"
DAMPING SADDLE
3" x 2" x 1/4" MK. A2
3" x 2" x 1/4" MK. A4
24T13
NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15-2"
A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-4 1/2"
3'-4"
13'-4"
6'-2 1/2"
10 3/4" or 10 3/4"
LOCATION OF HOLES
2 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
1'-0"
SEE DETAIL C
11 3/4" or 1'-0 1/2"
4 1/2"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ TRUSS
1/4" x 2" FILLET WELD 223.00
1 1/4"
3"
2"
2 3/4"
3" x 2" x 1/4" ∠
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
℄ P.P. 2
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
#8 SA2
3 1/2"
V2
DETAIL "B1"
WHEN APPLICABLE
3 1/4"
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B"
WHEN APPLICABLE
COVER PLATE B
COVER PLATE A
2" LAP
RRB
DETAIL "D"
DETAIL "E"
MK. A2 3 x 2" x 1/4" ANGLE
SEE DETAIL "J"
MK. A3
SECTION A-A
END SUPPORT ANGLE
2" x 1/4" x 0'-6" PATCH PLATE PP1
ARC WELD W.T.C. 223.00
ARC WELD W.T.C.223
COVER PLATE
DETAIL "A"
7 1/8"
1/4" x 1/2" FILLET W.T.C. 223.00
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW - DETAIL "B"
COVER PLATES #29 GA THICK
4"
1'-9"
COVER PLATE C
END STIFFENER
4" LAP
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2'-2 1/2" TO 8"
℄ NOTCH
END STIFFENERS
COVER PLATE A
DETAIL "G"
7 1/8"
3"
ARC WELD W.T.C 223.00 1/4" x 3" EACH SIDE
DETAIL "C"
ARC WELD W.T.C. 223.00
3" x 3/8" x 3" PATCH PLATE MK. PP2
SECTION C-C

C & DIMENSION HC4 ARE [illegible] BEARING END OF [illegible] WITH BUT NOT EXACTLY [illegible] THE COLUMN CLIPS & BRACES

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x [illegible] FULL THROAT FILLET.

A = [illegible]
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
[illegible]	MK	PC	SIZE	
[illegible]	TE	4	C32TIE 59-3	ST201E
[illegible]	T3	4	24T13 13-3	ST213
[illegible]	A2	[illegible]	[illegible]	ST403
[illegible]	A4	5	[illegible]	ST403
[illegible]	[illegible]	4	[illegible]	[illegible] 2
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3 x [illegible] x 3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-11 1/2"	ST303
	B	4	9" x 0.35" x 15'-2"	ST303
	C	2	9" x 0.35" x 13'-2 1/2"	ST303
	D	2	9" x .35" x 2'-1"	ST303
ANGLE [illegible]		16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST298
	DUS-2	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST298
CONNECTION BAR	CS1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	G.D.C.
1	7-15-68	GENERAL	T.M.C.

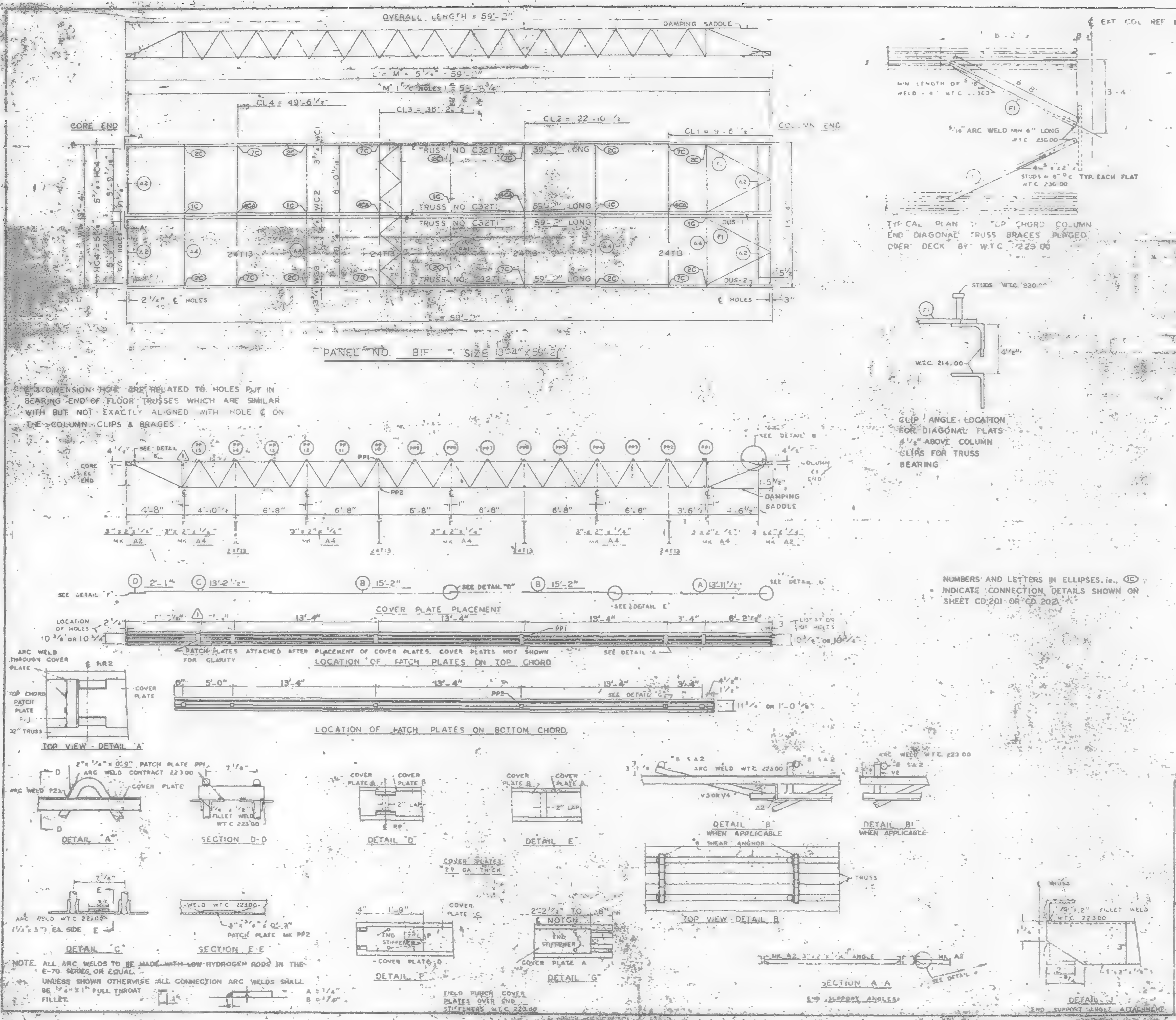
2 REF DWGS
[illegible] 3 10-15-68
[illegible] 6 7-26-68
[illegible] -42 10-15-68
[illegible] 1-6-69
[illegible] 2 [illegible]-68
[illegible] 2 7-22-68
[illegible] 6 7-22-68

[illegible] NEW YORK [illegible] AUTHORITY

BLDG A FLOORS 10-11 (NORTH & SOUTH)
PANEL [illegible] 4" x 59'-3"

James White 1/2/10

DATE FEB 24, 1968
CHECKED BY [illegible] FEB 24, 1968
221
PROD. DE.
SHEET FP BIE


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
TRUSS NO C32T1F 59'-2" LONG
24T13
2 1/4" ℄ HOLES
℄ HOLES 3"
L = 59'-2"
PANEL NO. BIF SIZE 13'-4" x 59'-2"
SEE DETAIL B
DAMPING SADDLE
4'-8"
4'-10 1/2"
6'-8"
3'-6 1/2"
4'-6 1/2"
MK A2
MK A4
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL F
LOCATION OF HOLES
10 3/8 OR 10 3/4
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
PP2
SEE DETAIL C
11 3/4 OR 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
COVER PLATE
TOP VIEW - DETAIL A
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
DETAIL "A"
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 29 GA THICK
ARC WELD WTC 22300
(1/4"x3") EA. SIDE
DETAIL "C"
WELD WTC 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E
1'-9"
END STIFFENER
COVER PLATE D
DETAIL "F"
COVER PLATE C
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
#8 SA2
ARC WELD WTC 22300
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL B
MK A2 3"x2"x1/4" ANGLE
SECTION A-A END SUPPORT ANGLES
FILLET WELD WTC 22300
DETAIL END SUPPORT ANGLE ATTACHMENT
℄ EXT COL REF LINE
MIN LENGTH OF 5/16 WELD - 4" WTC 22300
5/16" ARC WELD MIN 6" LONG WTC 23000
STUDS @ 8" O.C. TYP. EACH FLAT WTC 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE. ALL ARC WELDS TO BE MADE ~~WITH LOW~~ HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
~~FLOOR TRUSSES~~	T1F	4	C32T1F - 59'-2"	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4 x 13'-3	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2	ST303
	D	2	9"x.0135 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x6 1/2"	ST400
	P2	4	4 1/2"x.38"x0'-9"	ST400
	P3	4	4 1/2"x.38"x1'-0"	ST400

NO.	DATE	REVISION	BY
1	[illegible]	AS NOTED	

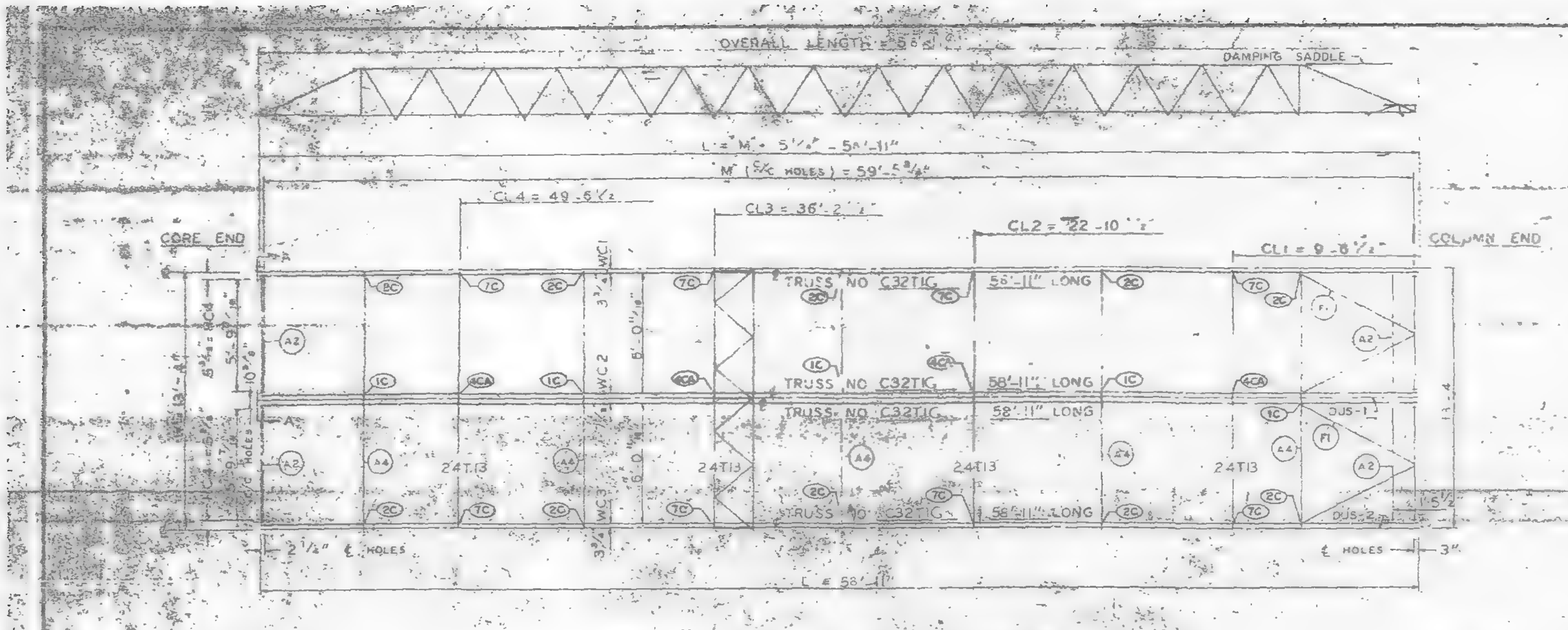
REF DRWG (1)

7-AB4-3	10-15-68
7-AB4-15 & 16	1-2-68
7-AB4-42	[illegible]
SA-124	[illegible]
7-AB3-2	1-3-68
7-AB1-2	[illegible]
7-AB2-8	[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

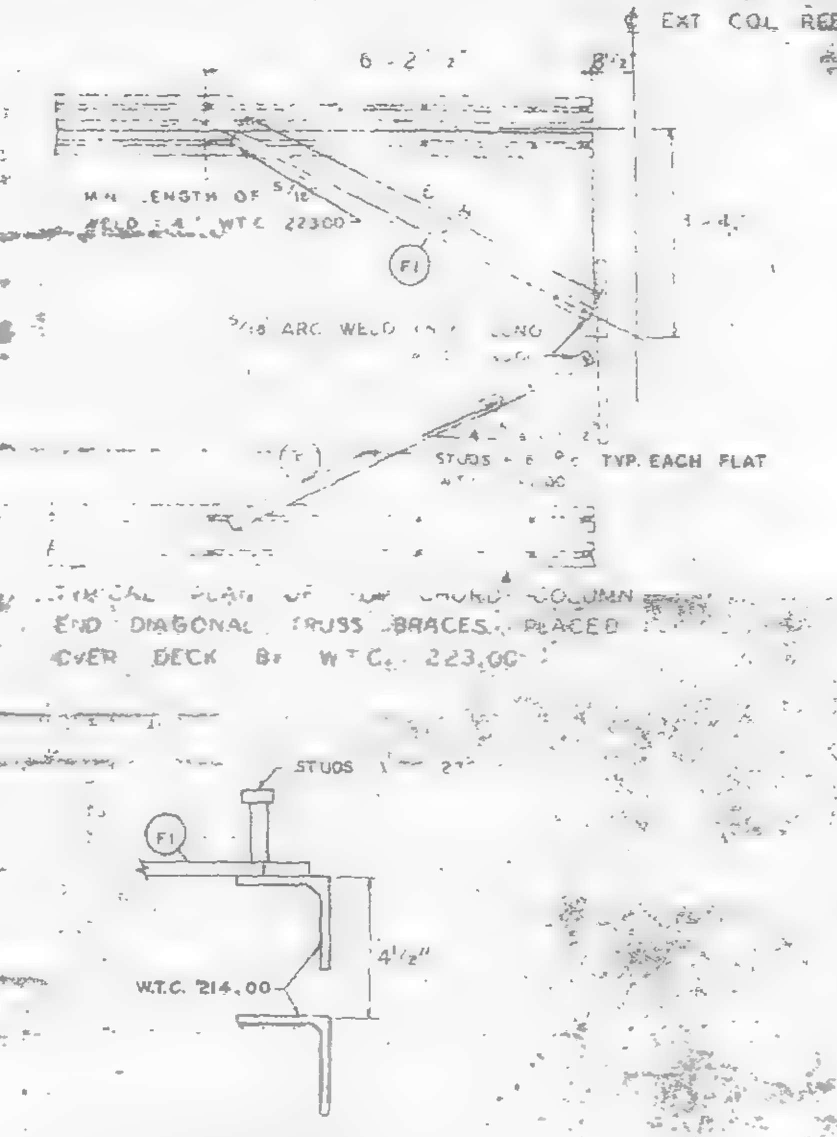
BLDG. A FLOORS 47-48(E), 47-48, 70-71(W)
PANEL BIF [illegible] x 59'-2"
(1) BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3 [illegible] PLATE
APPROVED FOR FABRICATION BY [illegible] PONYA DATE 1/2/70
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE OCT 15, 1968
IN CHARGE OF PROD. DIV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221.00
SHEET NO. [illegible]


OVERALL LENGTH
DAMPING SADDLE
L = M + 5 1/2" - 58'-11"
M (5/16 HOLES) = 59'-5 3/16
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-8 1/2"
CORE END
COLUMN END
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-11" LONG
24T13
WC1
WC2
WC3
2C
7C
1C
4CA
A2
A4
F1
DUS-1
DUS-2
13'-4"
℄ HOLES
L = 58'-11"

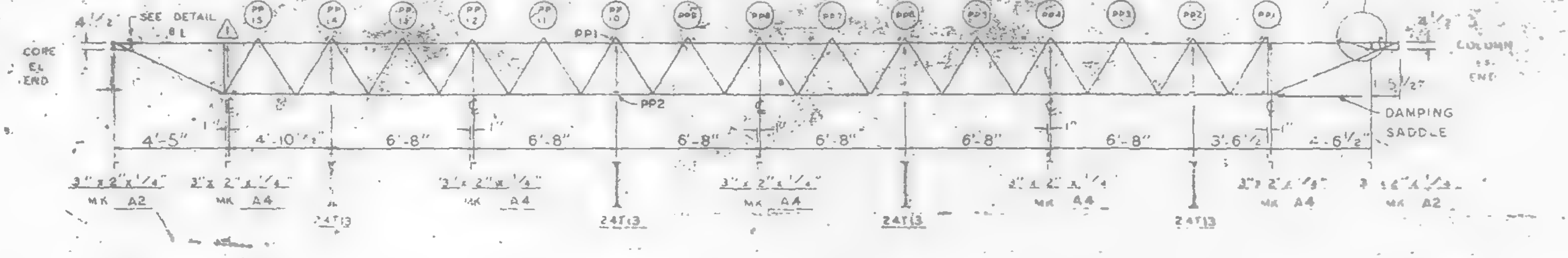
PANEL NO. B1G SIZE 13'-4" x 58'-11"

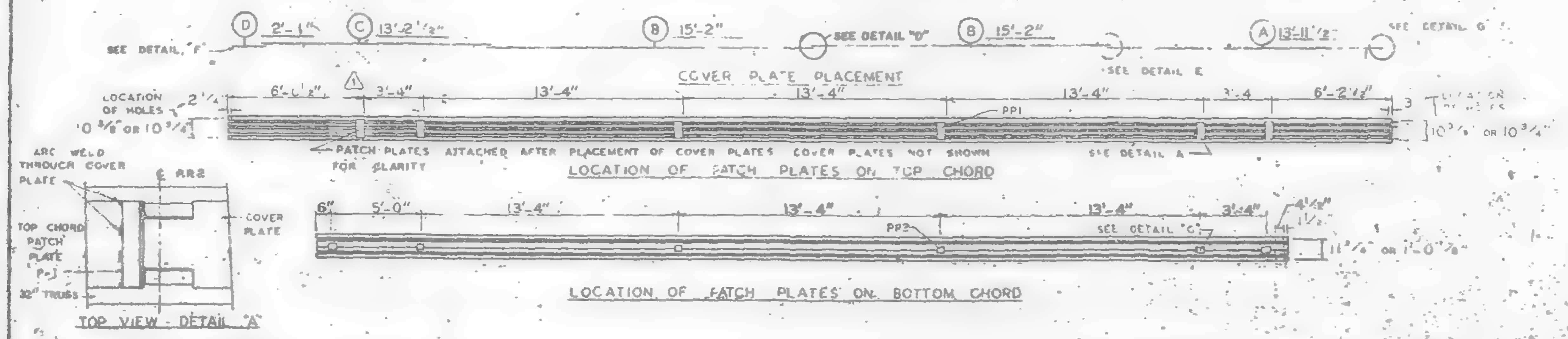
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

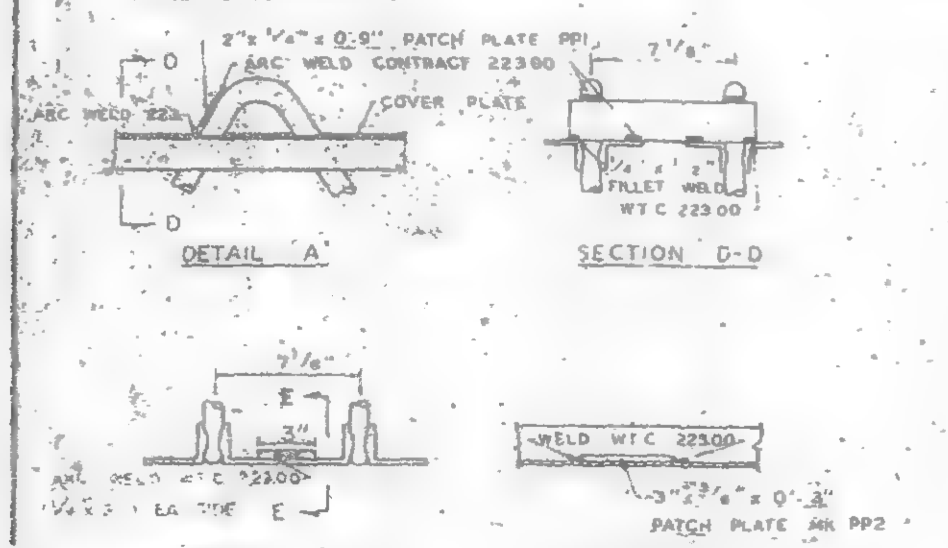

℄ EXT COL REF LINE
6'-2"
MIN LENGTH OF 5/16 WELD 1 4" W.T.C. 22300
F1
5/16 ARC WELD
STUDS TYP. EACH FLAT
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS
F1
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

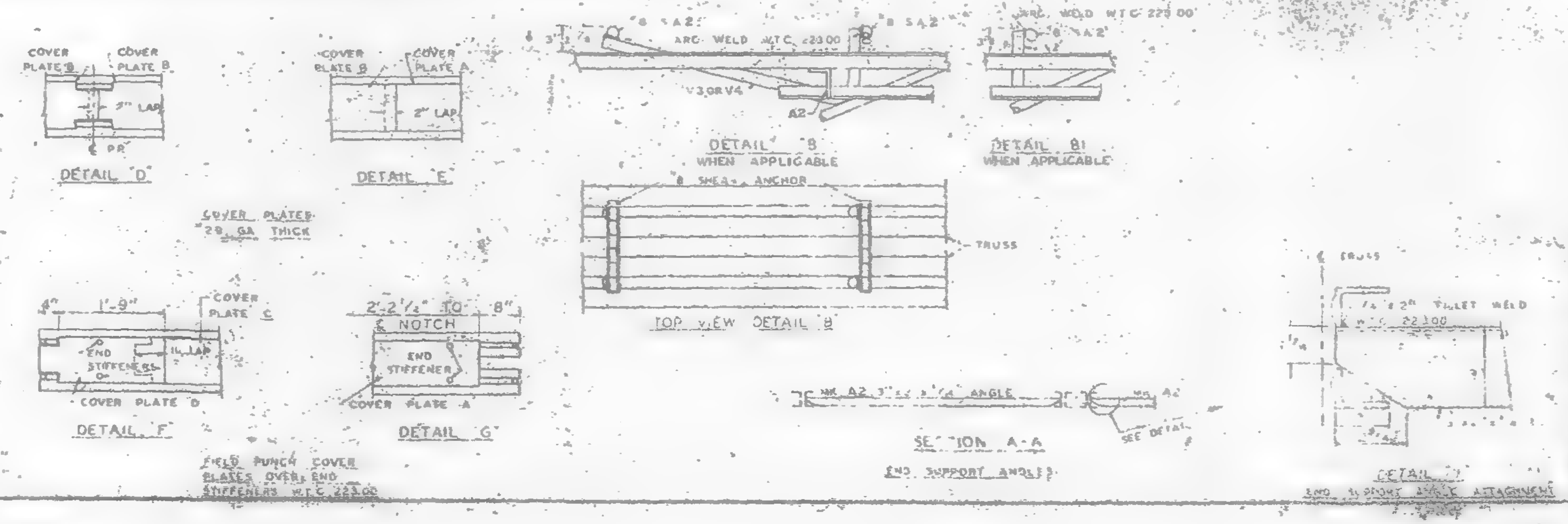
REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST 296
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT 2 3
BEARING ANGLE	A2	4	[illegible]	ST 403
	A4	5	[illegible]	ST 403
DIAGONAL FLATS	F1	4	2" x 5/8 x 6'-8"	ST 402
PATCH PLATES	PP1	2	2" x [illegible] x 9"	ST 400
	PP2	12	3" x 3/8 x 0'-3"	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-0 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-0 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400


SEE DETAIL B1
SEE DETAIL B
CORE ℄ END
COLUMN END
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
PP1
PP2
DAMPING SADDLE
4'-5"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6 1/2"
6 1/2"
MK A2
MK A4
MK A4
MK A4
MK A4
MK A4
MK A2
24T13
24T13
24T13
24T13


SEE DETAIL F
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL D
B 15'-2"
A 13'-11 1/2"
SEE DETAIL G
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 5/8" OR 10 3/4"
6'-1 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4
6'-2 1/2"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
ARC WELD THROUGH COVER PLATE
℄ AR2
COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
TOP VIEW DETAIL A
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
PP2
SEE DETAIL C
11 1/6" OR 1'-0 3/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD


2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 223
DETAIL A
SECTION D-D
FILLET WELD W.T.C. 22300
7 1/8"
3"
ARC WELD W.T.C. 22300
DETAIL C
WELD W.T.C. 22300
3" x 3/8" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/8" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"


COVER PLATE B
COVER PLATE A
2" LAP
DETAIL D
DETAIL E
COVER PLATES 28 GA THICK
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL F
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
ARC WELD W.T.C. 22300
SA2
A2
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
MK A2 ANGLE
SECTION A-A
END SUPPORT ANGLES
FILLET WELD
DETAIL H
END SUPPORT ANGLE ATTACHMENT

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	CWC

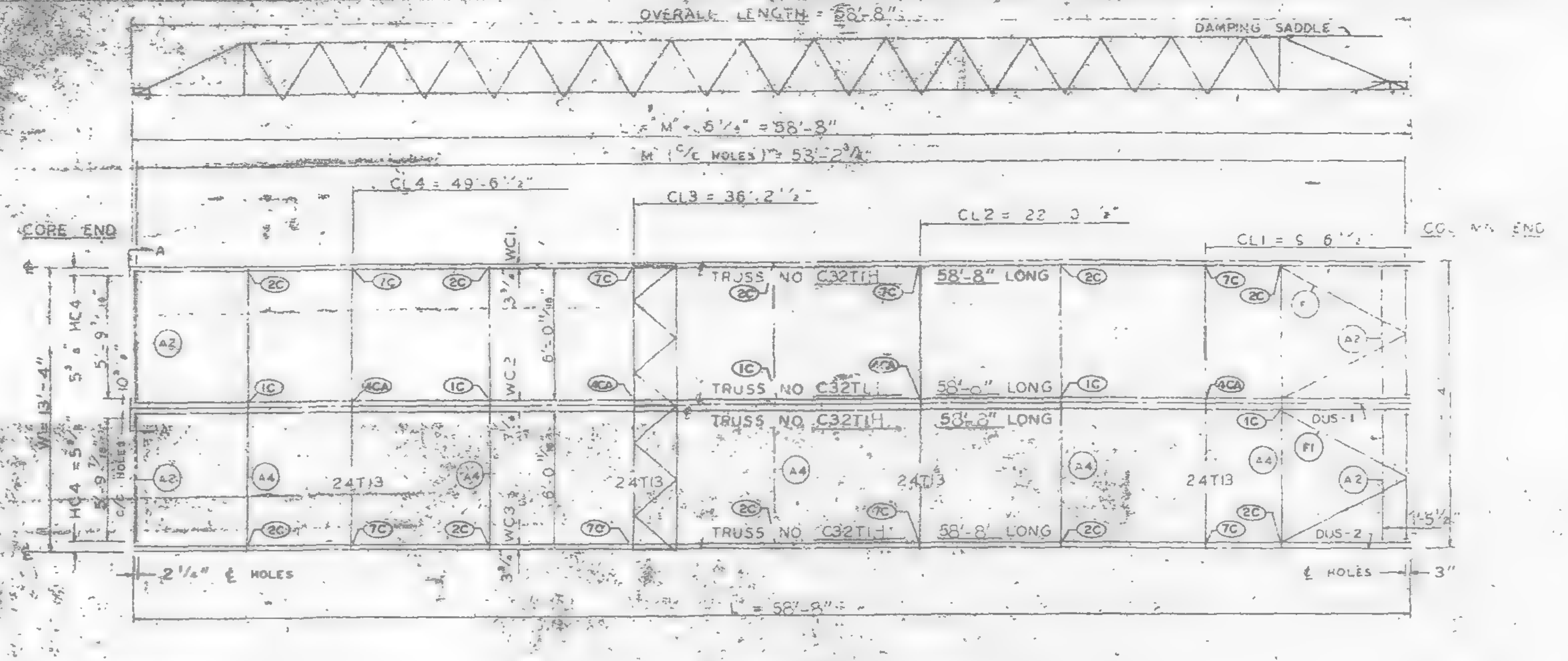
REF DRWG
7-AB4-8 10-15-68
7-AB4-15 & 16 7-24-68
1 7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 11-3-68
7-AB1-2 7-24-68
7-AB2-8 7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

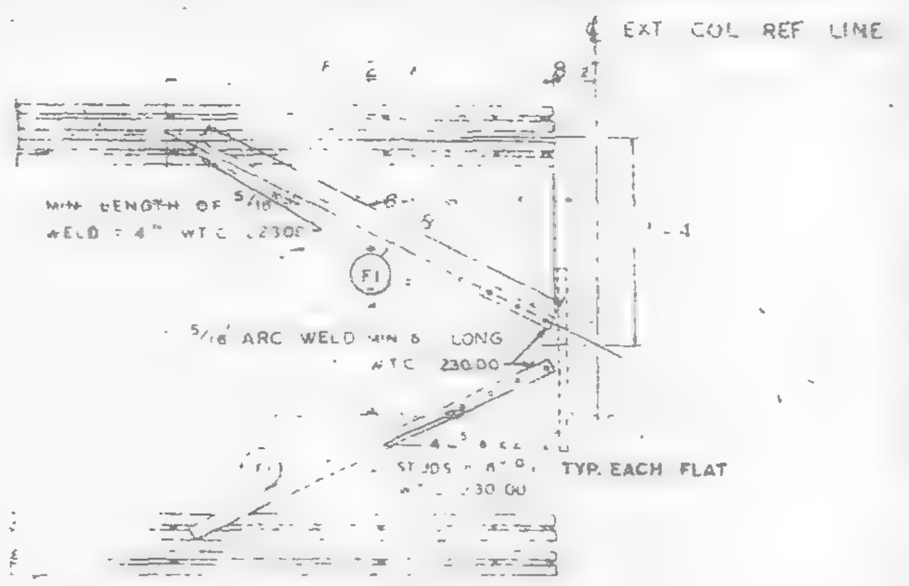
BLDG. A FLOORS 39-40 (NORTH & SOUTH)
1 PANEL B1G 13'-4" x 58'-11"
BLDG. B FLOORS 39-40 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-5	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE OCT. 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.C. DATE OCT. 15, 1968	IN CHARGE OF PROD. ENG.
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B1G

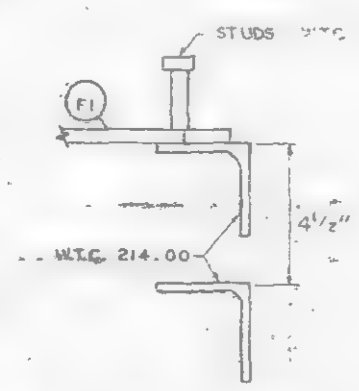

OVERALL LENGTH = 58'-8"
DAMPING SADDLE
"M" - 5'1/4" = 58'-8"
CL4 = 49'-6"
CL3 = 36'-2"
CL2 = 22'-3"
CL1 = 5'-6"
CORE END
COL. END
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1 58'-0" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
24T13
HC4
DUS-1
DUS-2
2 1/4" ℄ HOLES
℄ HOLES 3"

PANEL NO. B1H SIZE 13'-4" x 58'-8"


℄ EXT. COL. REF. LINE
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 230.00
F1
5/16 ARC WELD MIN. 5" LONG W.T.C. 230.00
TYP. EACH FLAT

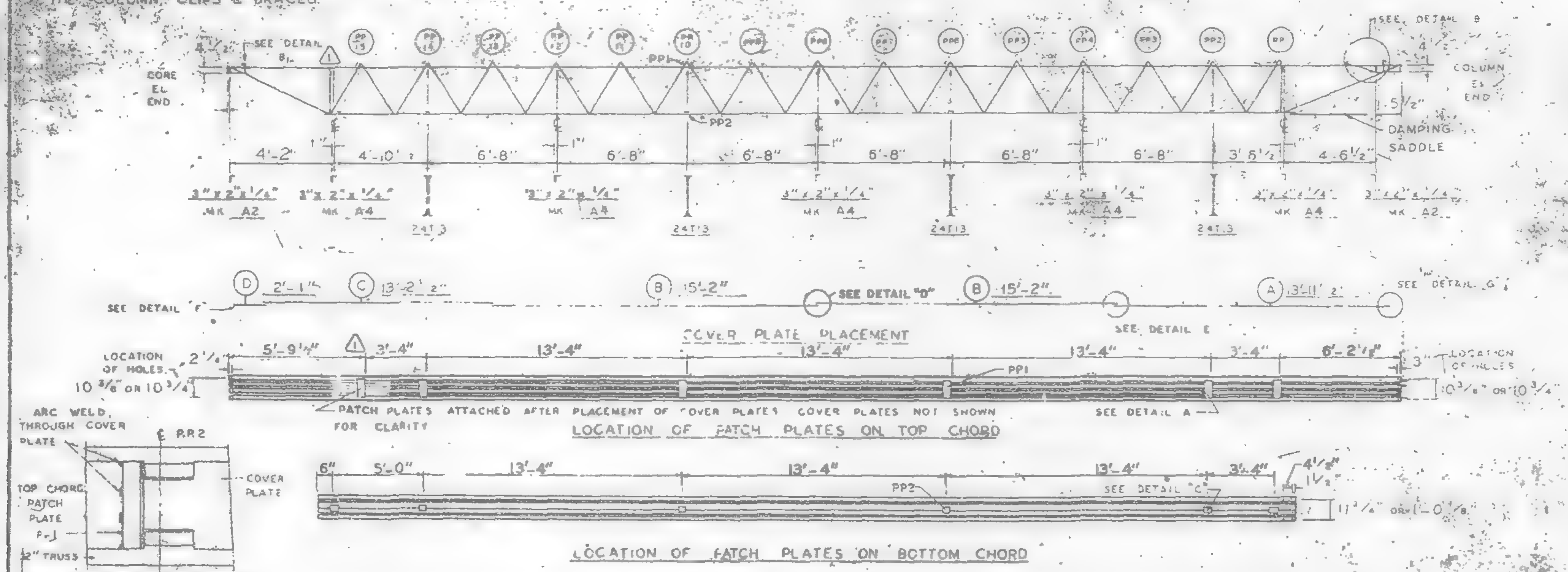
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PC.	SIZE	
FLOOR TRUSSES	T1	4	C32T1 58'-8"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT 213
3 x 2 x 1/4 ANGLE	A2	4	3 x 2 x 1/4 x 5"	ST 403
	A4	5	3 x 2 x 1/4 x 3'-3"	ST 403
DIAGONAL FLATS	F	4	2 x 3/8 x 5'-8	ST 402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400


STUDS W.T.C.
F1
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

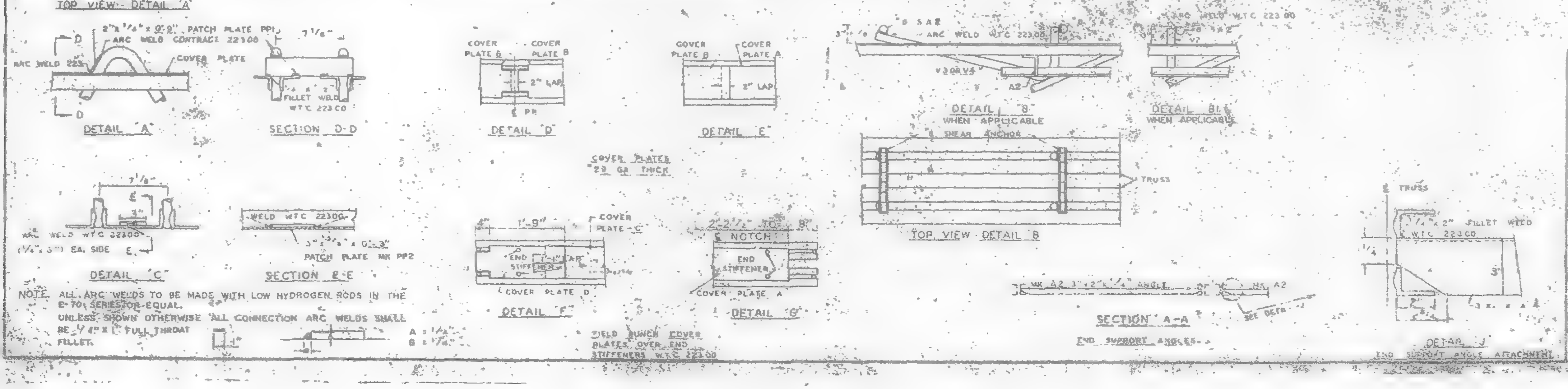

SEE DETAIL B1
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
4'-2"
4'-10"
6'-8"
3'-6"
4'-6 1/2"
3" x 2" x 1/4" MK A2
3" x 2" x 1/4" MK A4
24T13
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL "F"
SEE DETAIL "G"
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

1	6-?-69	AS NOTED	
NO.	DATE	REVISION	BY

REF. DRWG

7-AB4-3	10-15-68
7-AB4-12 & 16	7-22-68
△1 7-AB4-42	10-15-68
SA-124	1-6-69
7-AB1-2	1-3-69
7-AB1-2	7-22-68
7-AB2-8	7-22-68

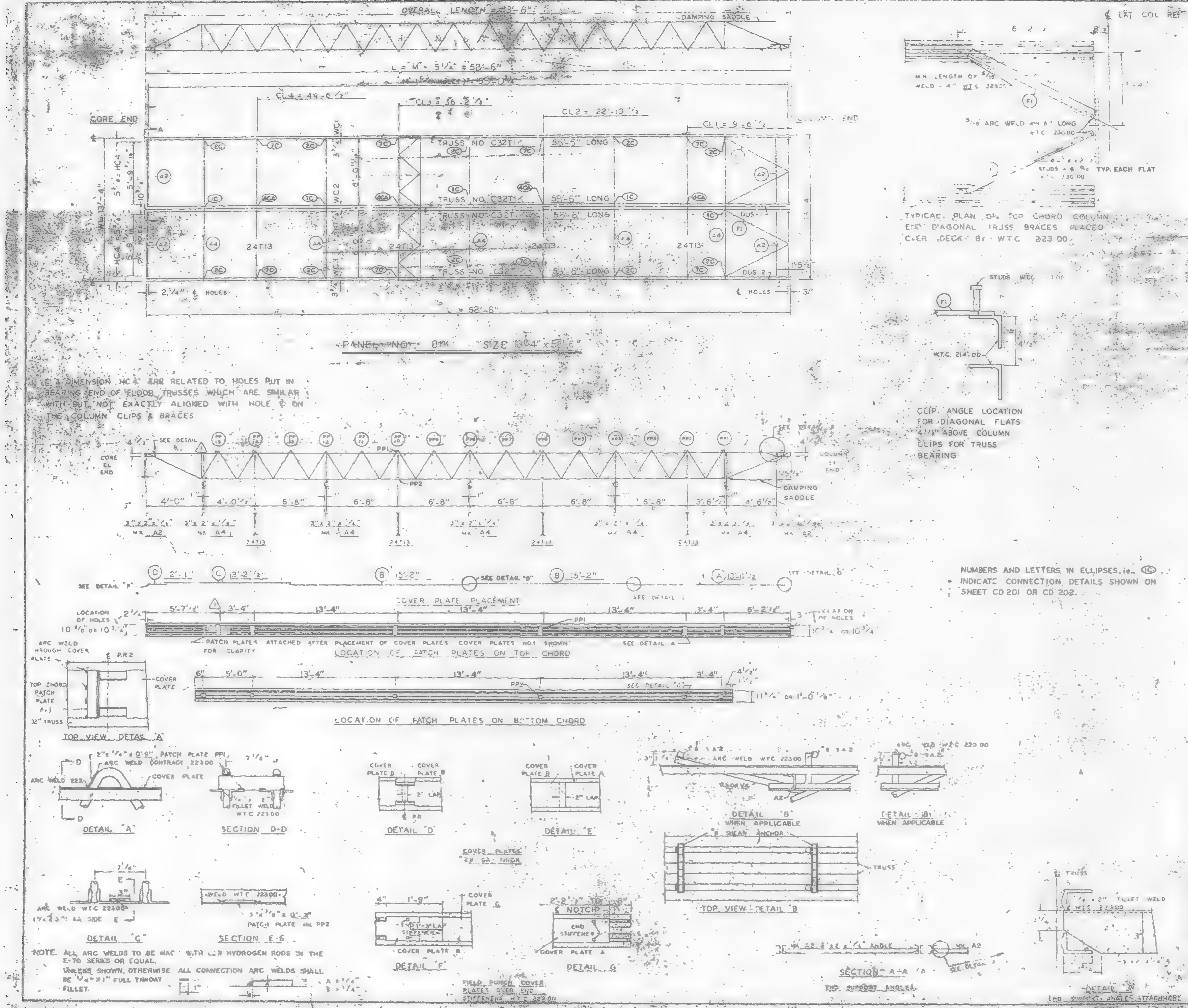

ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
COVER PLATE
TOP VIEW DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 29 GA. THICK
ARC WELD W.T.C. 223.00
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
DETAIL B1 WHEN APPLICABLE
ARC WELD W.T.C. 22300
(1/4" x 3") EA. SIDE
DETAIL "C"
WELD W.T.C. 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
NOTCH
COVER PLATE A
DETAIL "G"
FIELD BUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3" x 2" x 1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
1/4" x 2" FILLET WELD W.T.C. 223.00
DETAIL J
END SUPPORT ANGLE ATTACHMENT
A = 1/4"
B = 1/4"

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL B1H 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE OCT. 1968
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FB 81


OVERALL LENGTH = 58'-6"
DAMPING SADDLE
L = M + 5 1/4" = 58'-6"
CL4 = 48-6 1/2"
CL3 = 36-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9-6 1/2"
CORE END
TRUSS NO. C32T1K 58'-5" LONG
TRUSS NO. C32T1K 58'-6" LONG
24T13
2 1/4" ℄ HOLES
℄ HOLES
L = 58'-6"
PANEL NO. 81K SIZE 13'-4" x 58'-6"
EXT COL REF LINE
MIN LENGTH OF 5/16 WELD - 4" WTC 223.00
5/16 ARC WELD 4" 6" LONG WTC 230.00
STUDS @ 6 ℄ TYP. EACH FLAT WTC 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
STUDS WTC
WTC 214.00
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
4'-0"
4'-10 1/2"
6'-8"
3'-6 1/2"
4' 6 1/2"
MK A2
MK A4
24T13
SEE DETAIL "F"
2'-1"
13'-2 1/2"
15'-2"
SEE DETAIL "D"
13'-11 1/2"
COVER PLATE PLACEMENT
SEE DETAIL E
LOCATION OF HOLES
5'-7 1/4"
3'-4"
13'-4"
6'-2 1/2"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
5'-0"
PP2
SEE DETAIL "C"
11 3/4" OR 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223.00
DETAIL "A"
SECTION D-D
1/4" x 2" FILLET WELD WTC 223.00
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA. THICK
#8 SA2
ARC WELD WTC 223.00
DETAIL "B" WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL "B"
ARC WELD WTC 223.00 1 1/4" x 3" EA SIDE
DETAIL "C"
WELD WTC 223.00
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
END STIFFENER
COVER PLATE B
DETAIL "F"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
WELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
3" x 2" x 1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
1/4" x 2" FILLET WELD WTC 223.00
DETAIL "H"
END SUPPORT ANGLES ATTACHMENT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK.	PCS	SIZE	DRWG
FLOOR TRUSSES	T1K	4	C32T1K - 58'-6"	ST201K
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 5/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 3'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	CL	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST400
CONNECTION PLATES	P1	9	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

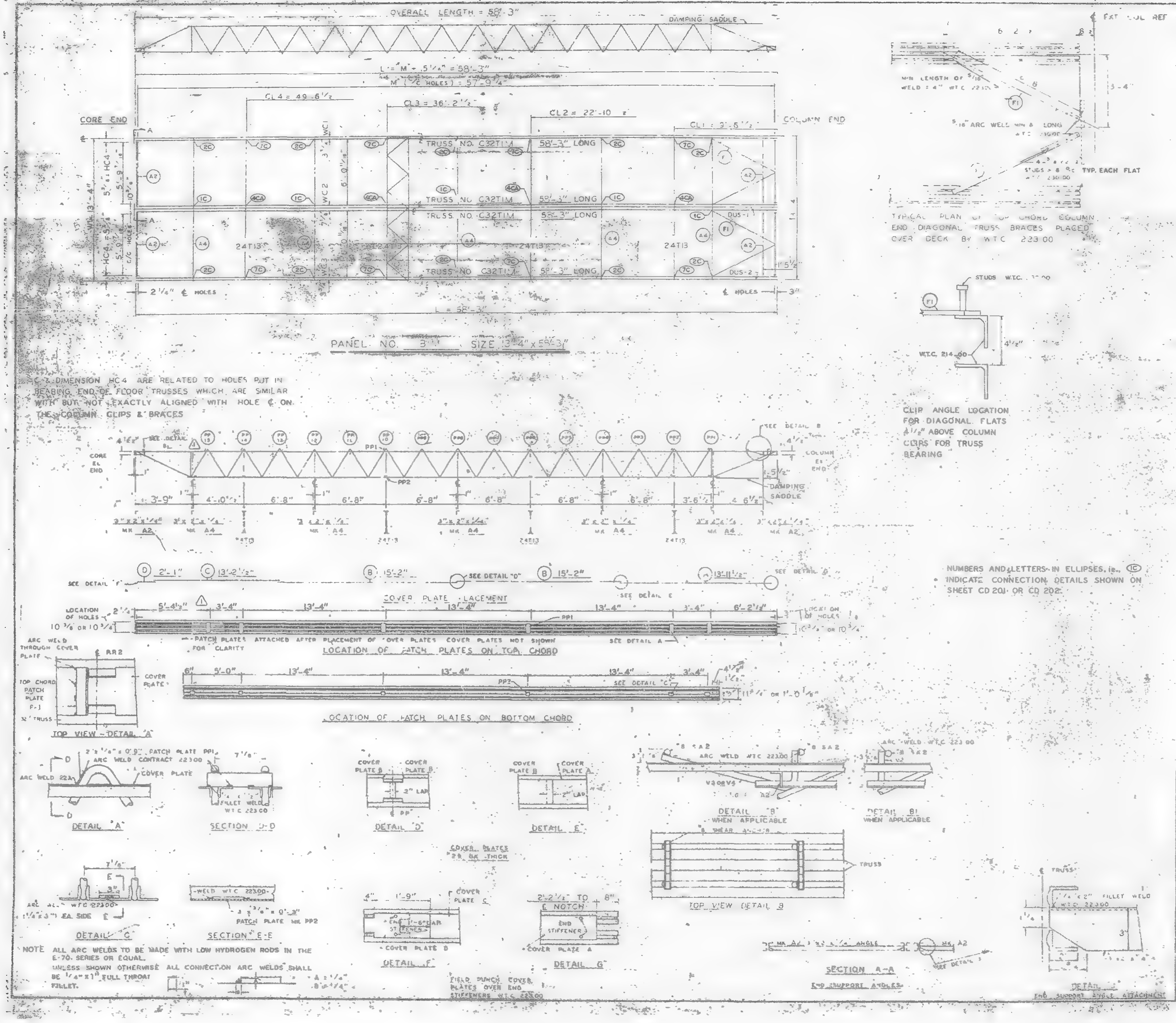
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G

REF DRWG
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4 42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(C) + 46(N)
PANEL 81K 13'-4" x 58'-6"
BLDG. B FLOORS 45-46 (EAST) 46 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION BY James White FOR P N Y A DATE 1/2/70
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY DATE
CHECKED BY DATE 1968
IN CHARGE OF PASR. DIV.
DETAILED BY
FABRICATION CONT. NO. WTC 221
SHEET NO.


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
L = "M" + .5 1/4" = 58'-3"
M (C/C HOLES) = 57'-9 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10
CL1
CORE END
COLUMN END
TRUSS NO. C32TIM
58'-3" LONG
24T13
DUS-1
DUS-2
2 1/16" ℄ HOLES
℄ HOLES
L = 58'-3"
PANEL NO. 8 SIZE 13'-4" x 58'-3"
CORE ℄L END
COLUMN ℄L END
DAMPING SADDLE
PP1
PP2
3'-9"
4'-0"
6'-8"
3'-6"
MK A2
MK A4
24T13
SEE DETAIL B
SEE DETAIL F
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL E
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES .0135 THICK
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
ARC WELD W.T.C. 223.00
FAT COL REF LINE
MIN LENGTH OF 5/16 WELD 4" W.T.C. 223.00
STUDS 8 ℄ TYP. EACH FLAT
STUDS W.T.C.
W.T.C. 214.00
4 1/2"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIM	4	C32TIM - 58'-3"	ST201M
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST219
3 1/2 x 1/4 ANGLE	A2	4	3"x2"x1/4"x5'-[illegible] 9/16"	ST403
	A4	5	3"x2"x1/4"x[illegible] 3	ST403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x 1/4"x 0'-9"	ST403
	PP2	12	3"x 3/8"x 0'-3"	ST4[illegible]
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135 x 15'-2"	ST303
	C	2	9"x.0135"x 13'-2 1/2"	ST303
	D	2	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2"x3/4"x8 1/2"	ST 400
	P2	4	4 1/2"x.30"x0'-9"	ST 400
	P3	4	4 1/2"x.30"x1'-0"	ST 400

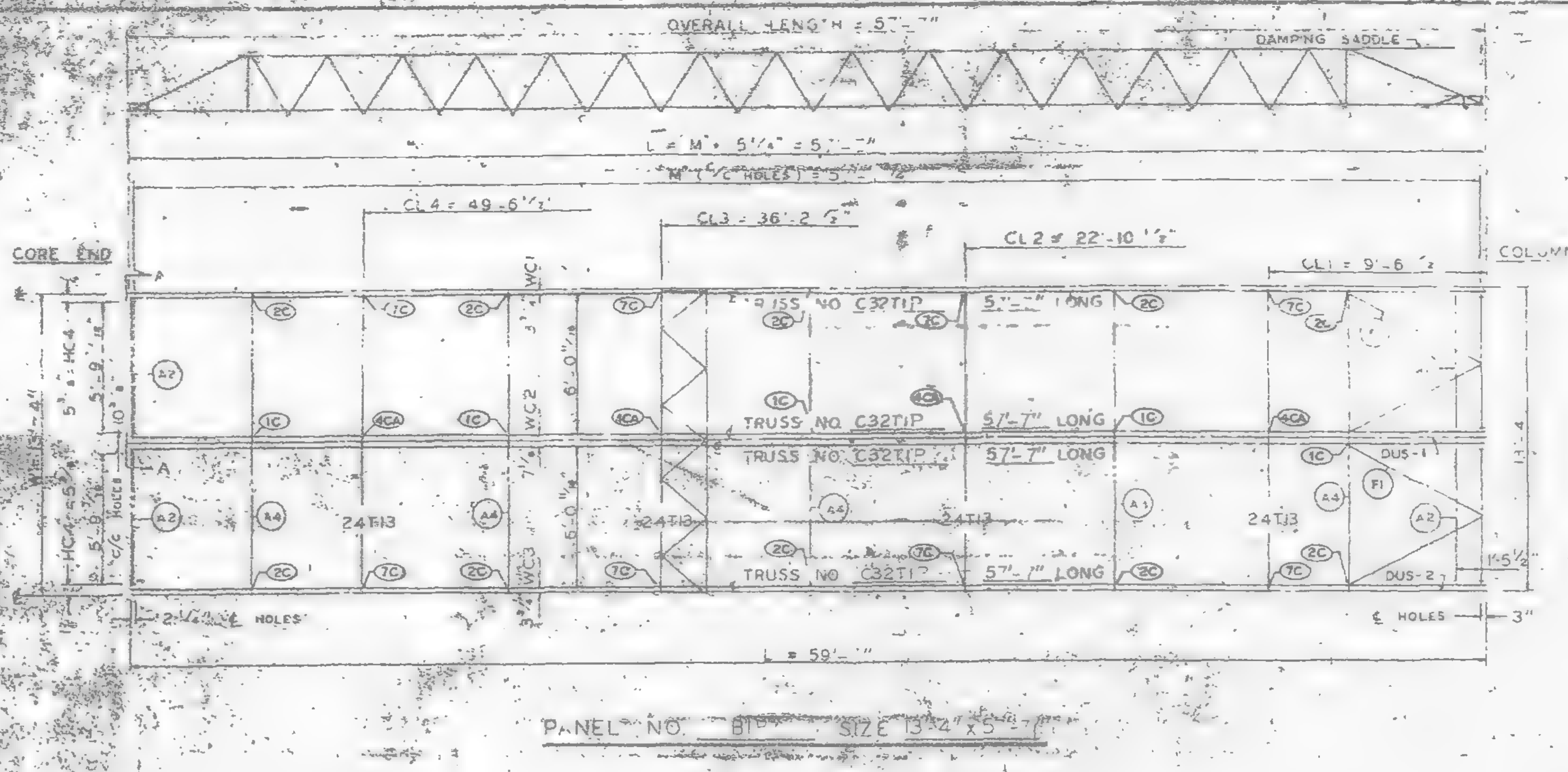
NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.C.

REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
⚠1 7-AB4-42 10-15-68
SA 124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-B 7-22-68

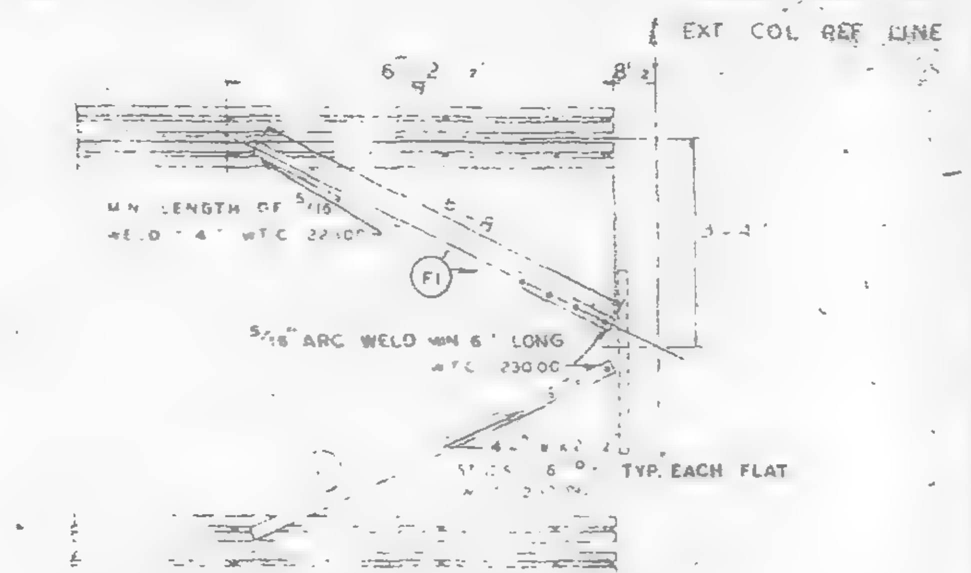
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (W)
PANEL 8
BLDG. B FLOORS 72-73 (WEST) ⚠1

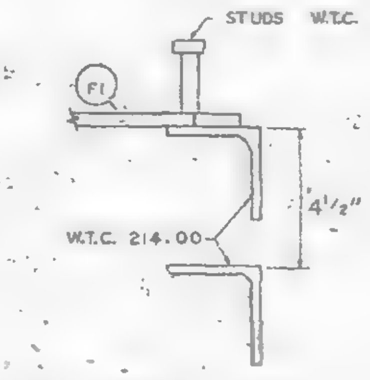
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 1/6/70
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION AT FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968 IN CHARGE OF
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. [illegible]


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CL4 = 49'-6 1/2"
CL3 = 36'-2 5/8"
CL2 = 22'-10 1/2"
CL1 = 9'-6
CORE END
COLUMN END
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
24T13
DUS-1
DUS-2
WC1
WC2
WC3
HC4
L = 59'
PANEL NO. B1 SIZE 13'2" x 5

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES.

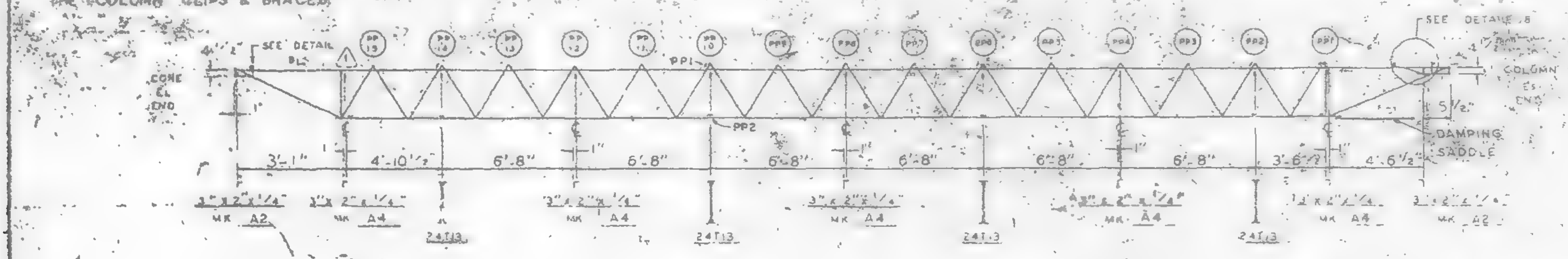

EXT COL REF LINE
MIN LENGTH OF 5/16 WELD 4" WTC 22300
5/16 ARC WELD MIN 6" LONG WTC 23000
TYP. EACH FLAT
F1

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK B: WTC 223.00

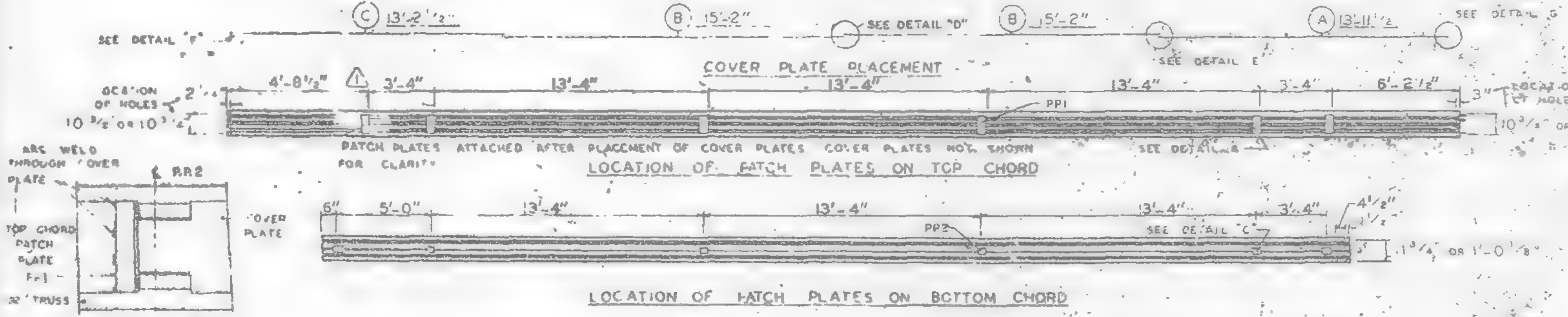

STUDS W.T.C.
F1
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T1 5	ST 201
BRIDGING TRUSSES	T13	4	24T 3 13 3"	ST 213
3"×2"×1/4 ANGLE	A2	4	3×2×1/4"×5'-11 9/16	ST 403
	A4	5	3×2×1/4×13'3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"×5/8"×6'-8"	ST 402
PATCH PLATES	PP1	12	2"×1/4"×0'-9"	ST 400
	PP2	12	3×3/8×0'-3"	ST 400
COVER PLATES	A	2	9"×.0135"×13'-11 1/2"	ST 303
	B	4	9"×.0135"×15'-2"	ST 303
	C	2	9"×.0135"×13'-2 1/2"	ST 303
	D	2	9"×.0135"×2'-1"	ST 303
ANGLE CLIPS	C1	16	2"×1 1/2"×1/4"×0'-6"	ST 400
#8 SHEAR ANCHOR	SA2		#8 REBAR×0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"×3 1/2"×5/8"×3'-5 7/8"	ST 298
	DUS-2	1	3 1/2"×3 1/2"×5/8"×3-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ϕ × 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2"×3/8"×6 1/2"	ST 400
	P2	4	4 1/2"×.39"×0'-9"	ST 400
	P3	4	4 1/2"×.39"×1'-0"	ST 400

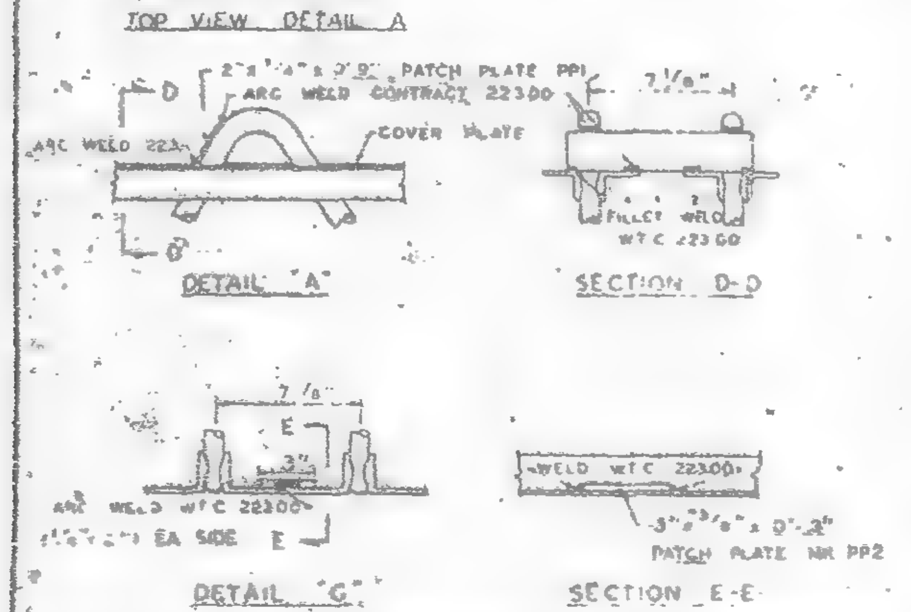

SEE DETAIL B1
CORE END
SEE DETAIL B
COLUMN END
DAMPING SADDLE
PP1
PP2
3'-1"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6
4'-6 1/2"
MK A2
MK A4
24T13

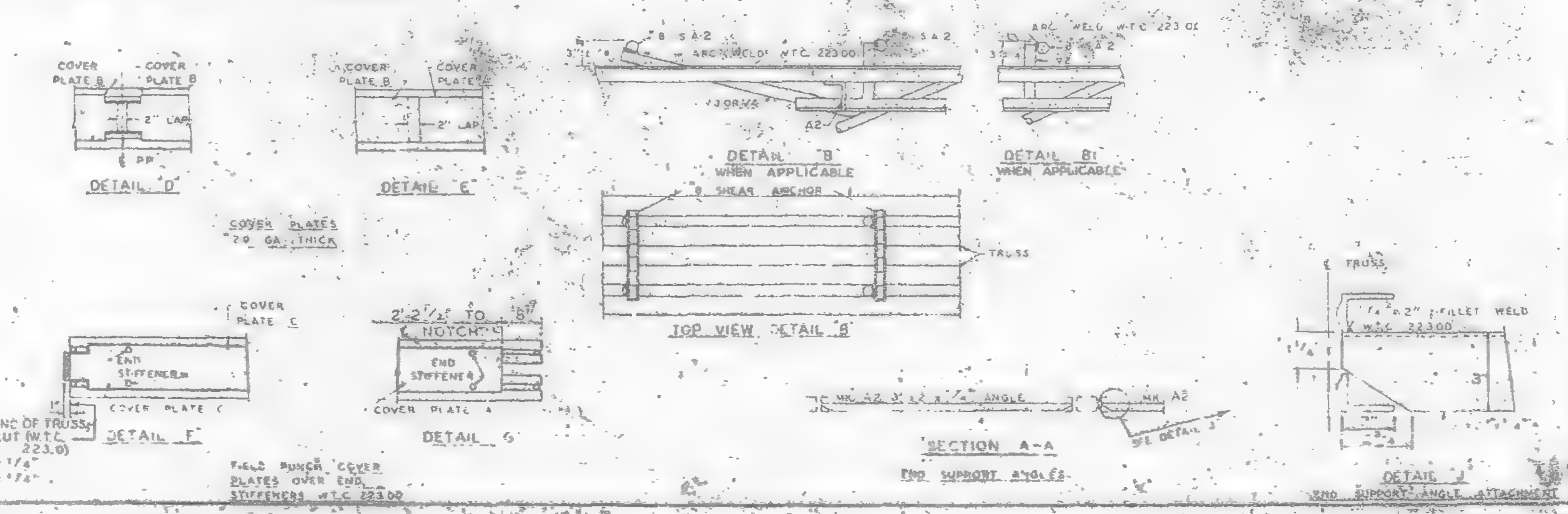
NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.


SEE DETAIL "F"
13'-2 1/2"
15'-2"
SEE DETAIL "D"
15'-2"
13'-11 1/2"
SEE DETAIL E
COVER PLATE PLACEMENT
4'-8 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE
TOP VIEW DETAIL A

NO.	DATE	REVISION	BY
1	6-4-69	AS NOTED	G.

⚠1 REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA-124 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68


2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
DETAIL "A"
SECTION D-D
FILLET WTC 22300
DETAIL "G"
ARC WELD WTC 22300
EA SIDE
SECTION E-E
WELD WTC 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2


COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 20 GA. THICK
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL "B"
END STIFFENER
COVER PLATE C
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
MK A2 3"x2"x1/4" ANGLE
MK A2
SECTION A-A
END SUPPORT ANGLES
¢ TRUSS
1/4" x 2" FILLET WELD WTC 22300
DETAIL 1
END SUPPORT ANGLE ATTACHMENT

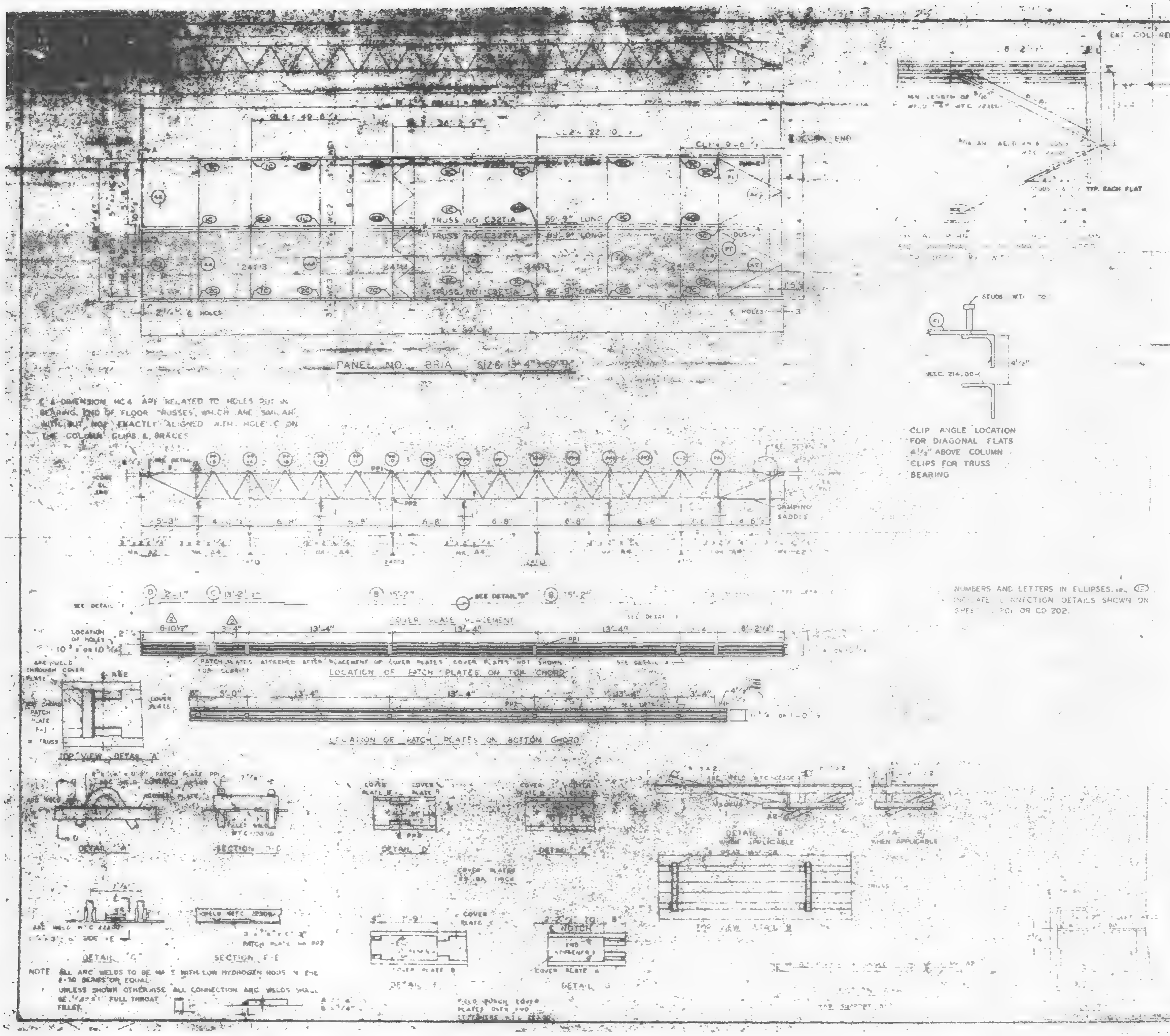
END OF TRUSS CUT (W.T.C. 223.0)
A = 1/4"
B = 1/4"

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"×3" FULL THROAT FILLET.

FLOOR PANEL DETAILS
FOR
WORLD-TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS
PANEL B1 57-7
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-5 PLATE
APPROVED FOR FABRICATION James White PNYA DATE 1/2/70
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.V.CHUGA DATE 1968
IN CHARGE OF
DETAILED BY A.C.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO.


EXT. COL. REF. LINE
6'-2"
CL 4 = 49'-8"
CL 2 = 22'-10"
CLIPS 9'-6"
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
24T13
2 1/4" CL HOLES
CL HOLES
= 59'-9"
PANEL NO. BRIA SIZE 13'-4" x 59'-9"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
STUDS
W.T.C. 214.00-H
4 1/2"
TYP. EACH FLAT
PP1
PP2
DAMPING SADDLE
5'-3"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
4'-6 1/2"
MK. A2
MK. A4
24T13
SEE DETAIL "D"
2'-1"
13'-2"
15'-2"
15'-2"
COVER PLATE PLACEMENT
LOCATION OF HOLES
6'-10 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
8'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
COVER PLATE
TOP VIEW DETAIL "B"
ARC WELD W.T.C. 22A00
WELD W.T.C. 22300
PATCH PLATE MK PP2
DETAIL "G"
SECTION F-F
1'-9"
COVER PLATE B
DETAIL "F"
NOTCH
END STIFFENERS
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300

CL & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES, WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	ST20[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
[illegible] ANGLE	A2	[illegible]	[illegible] 4 x 5 [illegible]	ST403
	A4	5	3 x 2 x 1/4 x [illegible] 3	ST403
DIAGONAL FLATS	F	[illegible]	[illegible] x 6'-8	ST402
PATCH PLATES	PP	12	[illegible] 0'-9	ST400
	PP2	12	[illegible] 9"	ST400
COVER PLATES	A	2	[illegible]	ST403
	B	[illegible]	[illegible] x .085 x [illegible]	ST403
	C	2	[illegible] x 0.85 x [illegible]	ST403
	D	2	[illegible] x .085 x 2'-1	ST403
[illegible]	[illegible]	16	[illegible]" x 1 1/2" x 1/4" x 0'-8"	ST400
[illegible]	[illegible]-2	8	[illegible]	ST400
[illegible]	DUS [illegible]	[illegible]	[illegible] 6"	ST96
[illegible]	DUS 2	[illegible]	[illegible] 6"	ST[illegible]
[illegible] BAR	[illegible]	4	[illegible]	[illegible]
CONNECTION PLATES	P1	5	[illegible] x 3/8" x [illegible]	[illegible]
	P2	4	4 1/2" x .30" x [illegible]	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

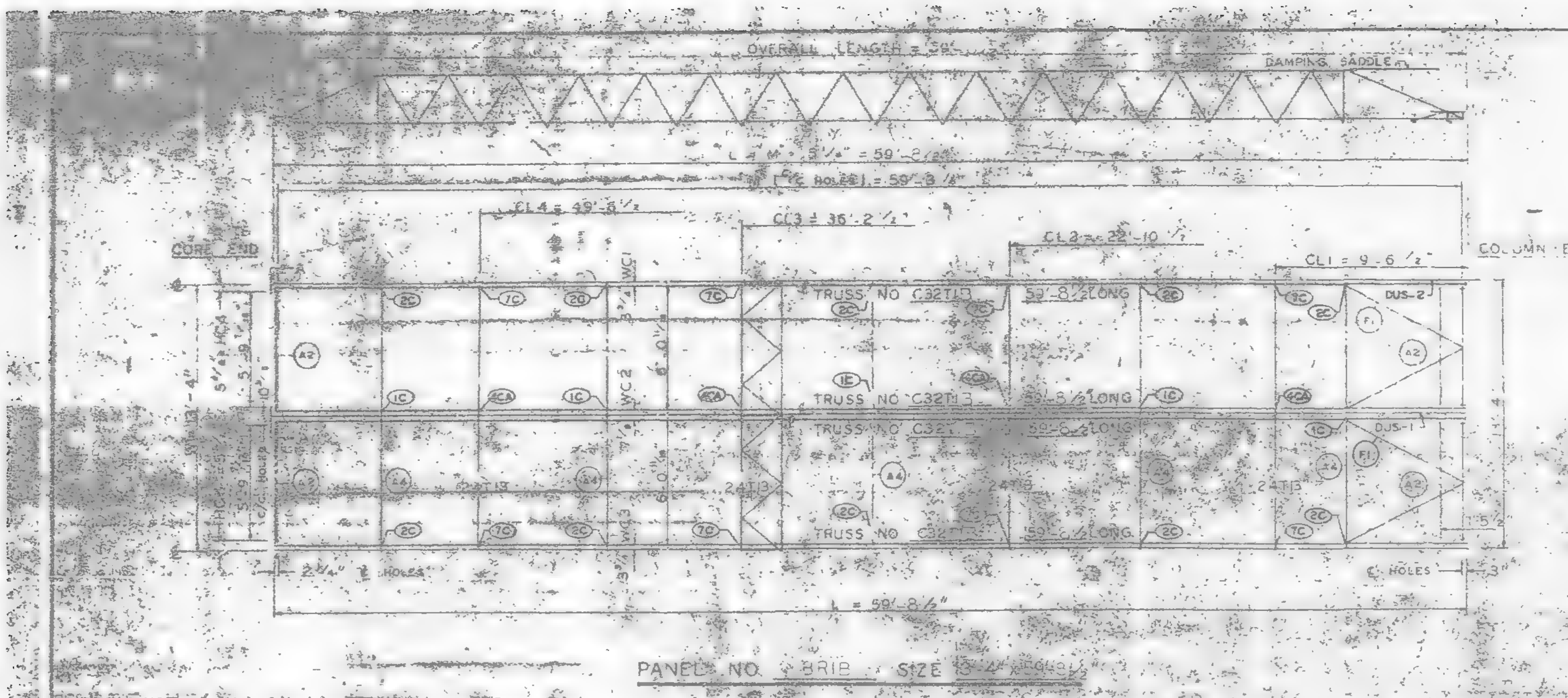
NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	[illegible]
1	[illegible]	GENERAL	[illegible]

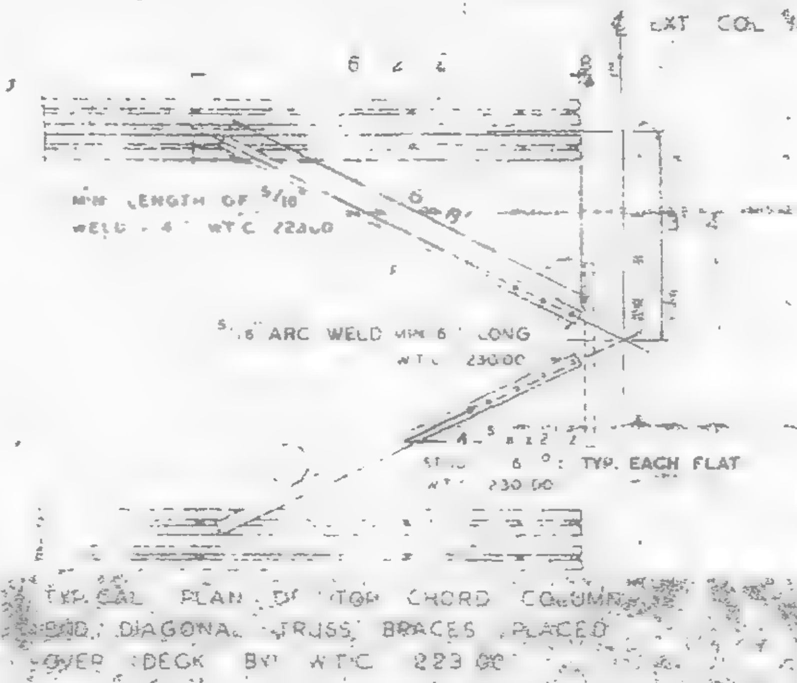
2) REF. DRAWS. [illegible] 10-15-68
[illegible] 7-24-68
[illegible] 42 10-15-68
[illegible] 1-6-69
[illegible]
[illegible] 7-24-68
[illegible] 7-24-68

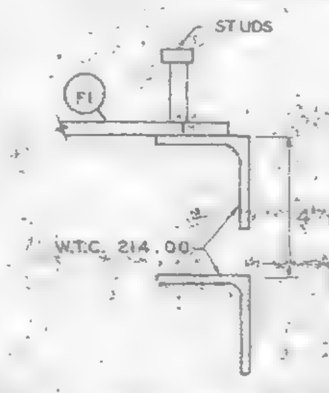
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-48 (NORTH & SOUTH) & 49-[illegible], 60-[illegible]
69 (NORTH) PANEL [illegible] [illegible] 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-[illegible]

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] 383 C
APPROVED FOR FABRICATION James White DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
CHECKED BY [illegible] DATE FEB 26, 1968
FABRICATION CONT. NO. 221
SHEET NO. [illegible] RIA

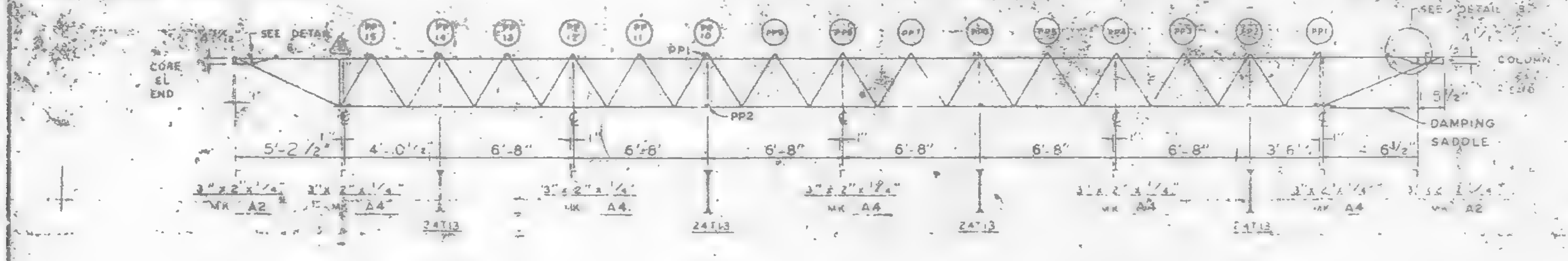

OVERALL LENGTH
DAMPING SADDLE
CL4 = 39'-8 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T18
59'-8 1/2" LONG
DUS-2
24T13
L = 59'-8 1/2"
HOLES
PANEL NO. SIZE


EXT COL REF LINE
MIN LENGTH OF 5/16" WELD - 4" WTC 22300
5/16 ARC WELD MIN 6" LONG WTC 23000
TYP. EACH FLAT
TYPICAL PLAN OF TOP CHORD COLUMN AND DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 22300

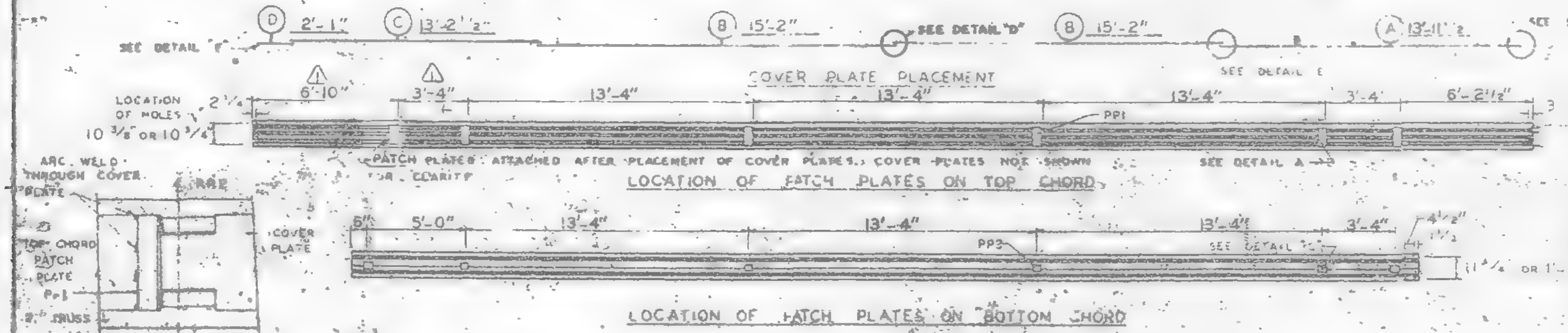

STUDS
F1
W.T.C. 214.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

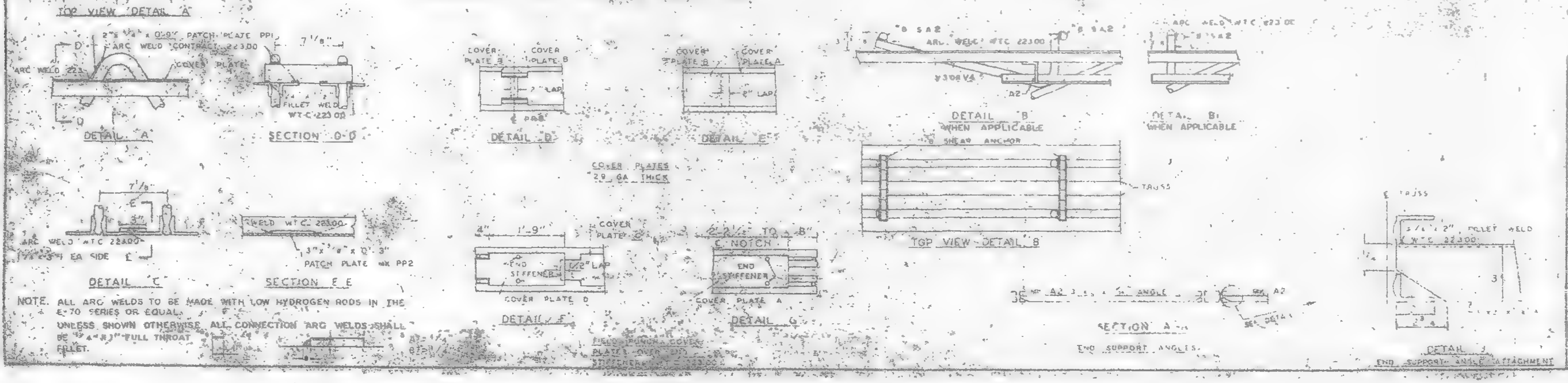

SEE DETAIL
CORE EL END
PP1
PP2
COLUMN
DAMPING SADDLE
5'-2 1/2"
4'-0 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
6 1/2"
3"x2"x1/4"
MK A2
MK A4
24T13

NUMBERS AND LETTERS IN ELLIPSES, ie. ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.


D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8 OR 10 3/4
6'-10"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
PP2
11 3/4 OR 1'-0 1/4
LOCATION OF PATCH PLATES ON BOTTOM CHORD

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	B.J.

1 REF. DRWG
7-AB4-2 10-15-68
7-AB4-15,16 & 39 7-22-68
7-AB4-42 10-15-68
SA 124 1-6-68
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 2-22-68


ARC WELD THROUGH COVER PLATE
TOP CHORD
PATCH PLATE
PP-1
TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
DETAIL "A"
FILLET WELD WTC 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
LAP
DETAIL "E"
COVER PLATES 29 GA THICK
#8 SA2
ARC WELD WTC 22300
A2
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TRUSS
TOP VIEW DETAIL B
7 1/8"
ARC WELD WTC 22300
EA SIDE
DETAIL "C"
WELD WTC 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E
1'-9"
COVER PLATE
END STIFFENER
LAP
COVER PLATE D
DETAIL F
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER STIFFENER
3/8" FILLET WELD WTC 22300
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT

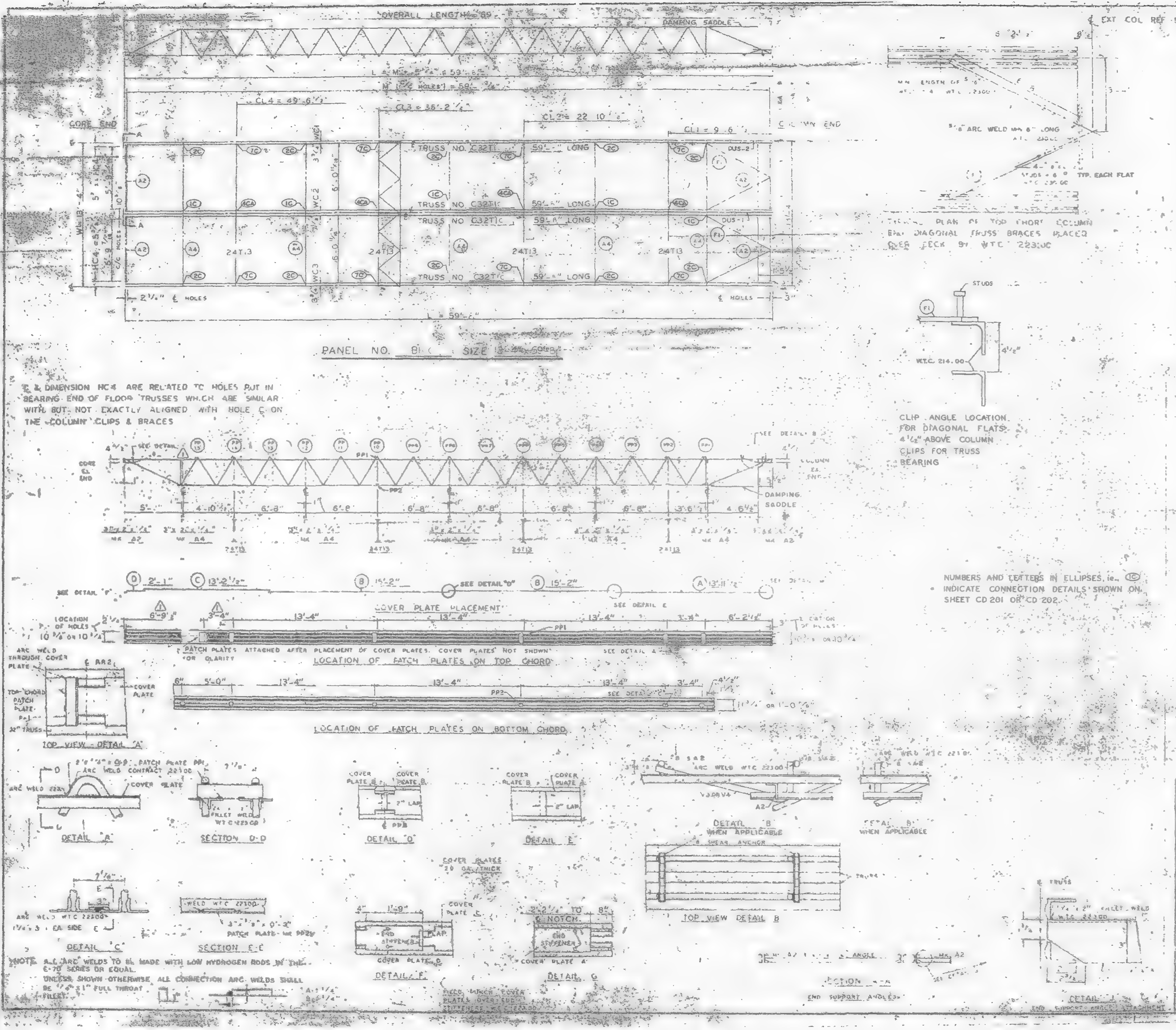
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T18	4	C32T18 - 59'-8 1/2"	ST2018
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST218
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-1 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x 0.035" x13'-11 1/2"	ST303
	B	4	9"x 0.0355" x15'-2"	ST303
	C	2	9"x .0135" x 13'-2 1/2"	ST303
	D	2	9"x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .39" x 1'-0"	ST400

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)
PANEL 4" x 59'-8 1/2"
BLDG. B FLOORS 83-91, 93-106 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3- PLATE
APPROVED FOR FABRICATION BY James W FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T H HUT DATE
IN CHARGE OF DRAWING
DETAILED BY
FABRICATION CONT. NO. WTC 221
SHEET NO. FD 8R1



OVERALL LENGTH 59'
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6½"
CL3 = 38'-2½"
CL2 = 22'-10½"
CL1 = 9'-6"
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
24T13
DUS-1
DUS-2
2½" ℄ HOLES
℄ HOLES
L = 59'-8"
PANEL NO. B[illegible] SIZE [illegible]
EXT COL REF LINE
5/16" ARC WELD MIN 6" LONG
TYP. EACH FLAT
STUDS
W.T.C. 214.00
4½"
DAMPING SADDLE
CORE ℄ END
COLUMN ℄ END
SEE DETAIL B
PP1
PP2
5'-0"
4'-10½"
6'-8"
3'-6"
4'-6½"
D 2'-1"
C 13'-2½"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11½"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES 10⅞" OR 10¼"
6'-9⅞"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2⅛"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
4½"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
TOP VIEW - DETAIL "A"
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
FILLET WELD W.T.C. 223.00
DETAIL "A"
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL E
ARC WELD W.T.C. 223.00
A2
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW DETAIL B
COVER PLATES 20 GA. THICK
ARC WELD W.T.C. 22300
1¼"x3" EA. SIDE
DETAIL "C"
WELD W.T.C. 22300
3"x⅜"x 0'-3"
PATCH PLATE - MK PP2
SECTION E-E
1'-9"
COVER PLATE C
END STIFFENER
LAP
COVER PLATE C
DETAIL F
3'-2½" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
ANGLE
A2
SECTION
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
A = 1/4"
B = 1/4"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T-C	4	C32T1C 59'-8"	ST201C
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST213
[illegible] ANGLE	[illegible]	4	[illegible] x 5'-1⅛"	ST403
	[illegible]	5	[illegible] x 13'-3"	ST403
DIAGONAL FLATS		4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	[illegible] x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.035" x 13'-11½"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x 0.035" x 13'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-6"	ST 400
DAMPING SADDLE	DUS 1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS 2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-6"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-5-69	AS NOTED	B.J.

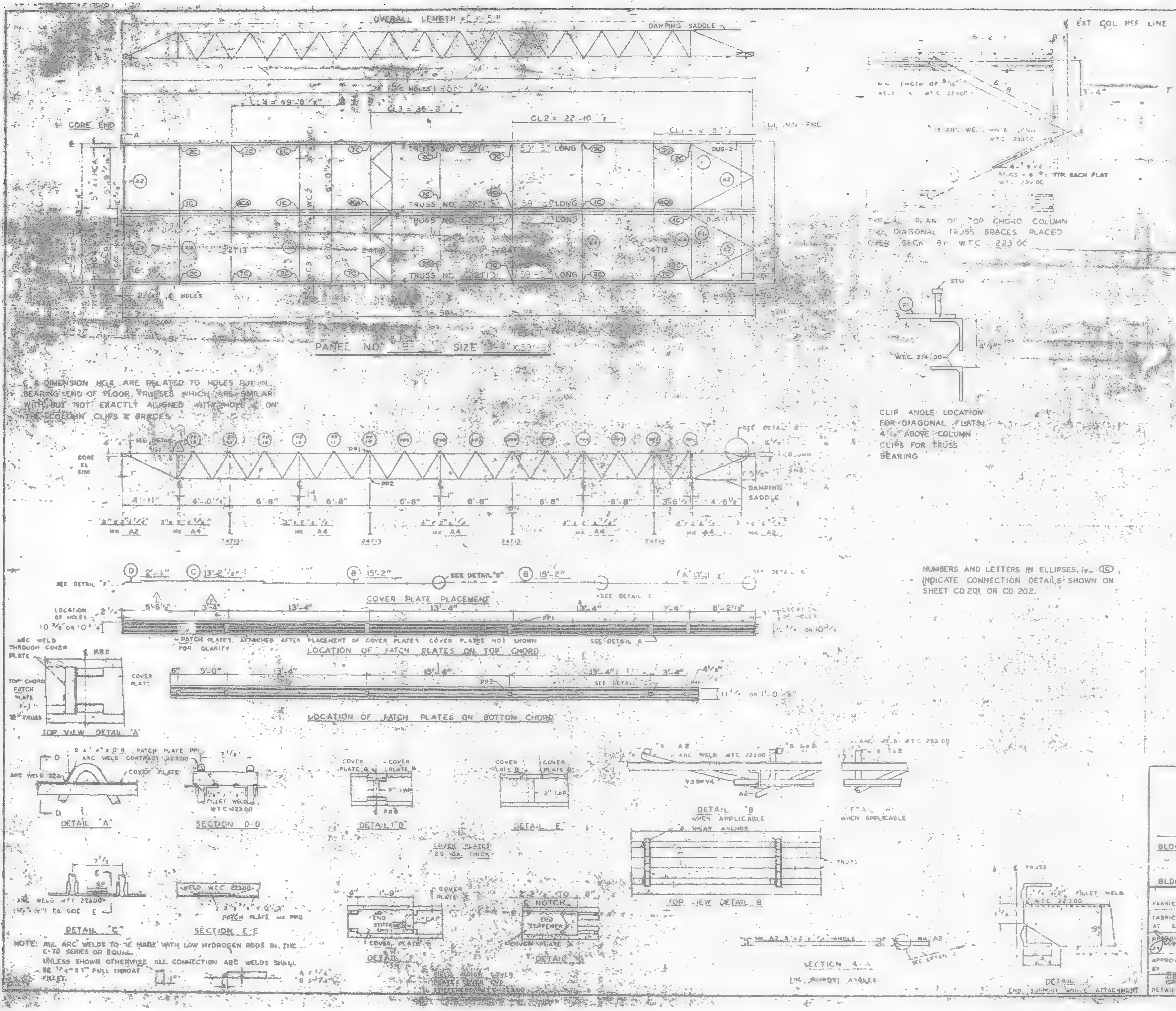
⚠1 REF DRWG

7-AB4-3	10-15-68
7-AB4-15-16	7-22-68
7-AB4-42	10-15-68
5A-124	1-6-68
7-AB3-2	1-3-68
7-AB1-2	9-22-68
7-AB2-8	2-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 49-58, 60-[illegible]
PANEL [illegible] 4" x [illegible]
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE [illegible]
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF [illegible]
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 281
SHEET NO. FP-[illegible]C


OVERALL LENGTH
DAMPING SADDLE
CL4 = 49'-6 1/2"
CL3 = 36'-2"
CL2 = 22'-10"
CORE END
EXT COL REF LINE
TRUSS NO. C32T1 59'-3" LONG
DUS-2
DUS-1
24T13
WC1
WC2
WC3
PANEL NO. BP SIZE 13'-2" x 59'-5"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS = 6" TYP. EACH FLAT
W.T.C. 214.00
CORE EL END
SEE DETAIL
COLUMN END
DAMPING SADDLE
PP1
PP2
4'-11"
4'-0"
6'-8"
3'-6"
4'-6"
3" x 2" x 1/4" MK A2
3" x 2" x 1/4" MK A4
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 22 GA. THICK
DETAIL "B" WHEN APPLICABLE SHEAR ANCHOR
TOP VIEW DETAIL B
DETAIL "C"
ARC WELD W.T.C. 22300
1 1/2" x 3" EA. SIDE
WELD W.T.C. 22300
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
END STIFFENER
COVER PLATE
DETAIL "F"
DETAIL "G"
FIELD WELD COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3" x 2" x 1/4" ANGLE
SECTION 4-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
A = 1/4
B = 1/4

Ⓛ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ⓛ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1C	4	C32T1 59'-[illegible]	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 5/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.135" x 13'-10 1/2"	ST303
	B	4	9" x 0.135" x 15'-2"	ST303
	C	2	9" x 0.135" x 13'-2 1/2"	ST303
	D	2	9" x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 6 1/8"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	RJP

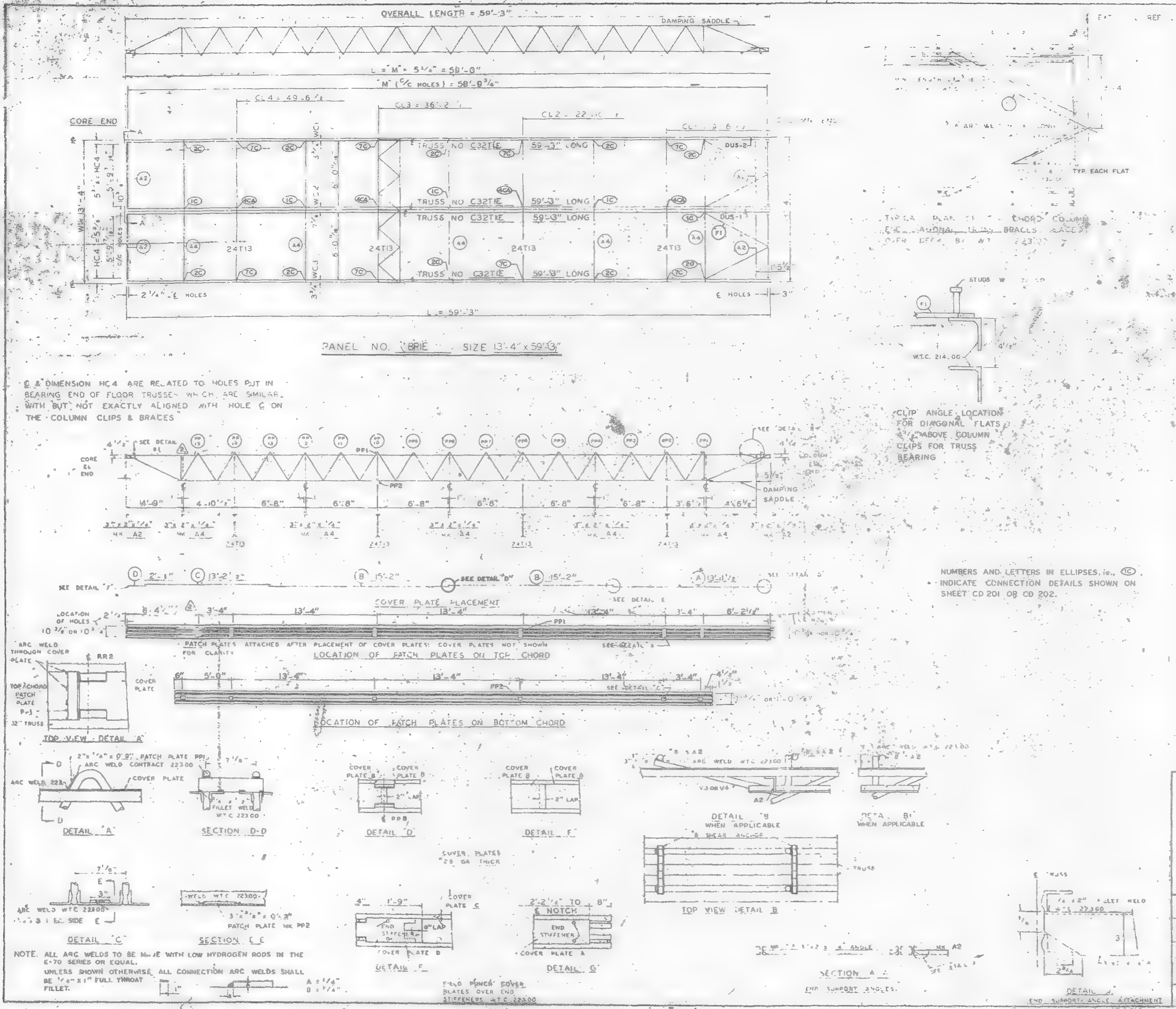
△1 REF DRWG

7-AB4-3,3,1	10-15-68
7-AB4 15,16 & 39	7-22-68
7-AB4-42	10-5-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 [illegible]
PANEL [illegible] 13'-4" x 59'-5"
BLDG. B FLOORS 81-82 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-6 PLATE
APPROVED FOR FABRICATION BY James W. White P.O.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF DEPT. DET.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FD 5B1


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = "M" + 5 1/4" = 58'-8"
"M" (C/C HOLES) = 58'-8 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2"
CL2 = 22'-
CORE END
TRUSS NO C32TE 59'-3" LONG
DUS-2
DUS-1
24T13
L = 59'-3"
PANEL NO. BRIE SIZE 13'-4" x 59'-3"
CORE END
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES: COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "F"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
TYP EACH FLAT
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 3/4" ABOVE COLUMN CLIPS FOR TRUSS BEARING
LACLEDE STEEL CO.

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TE	4	C32TE 59'-3"	ST201E
BRIDGING TRUSSES	T13	4	24T13 13'-3"	BT213
3 x 2 x 1/4 ANGLE	A2	4	3 x 2 x 1/4 x 5'-9"	ST403
	A4	5	3 x 2 x 1/4 x 13'-3	ST403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible] 8 x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-1 1/2"	ST303
	B	4	9" x 0.35 x 15'-2"	ST303
	C	2	9 x .33 x 13'-2 1/2	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8" x 3'-6 7/8"	ST298
	DUS-2	[illegible]	3 1/2 x 3 1/2 x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 # x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	R.J.P.
1	7-15-68	GENERAL	T.M.C.

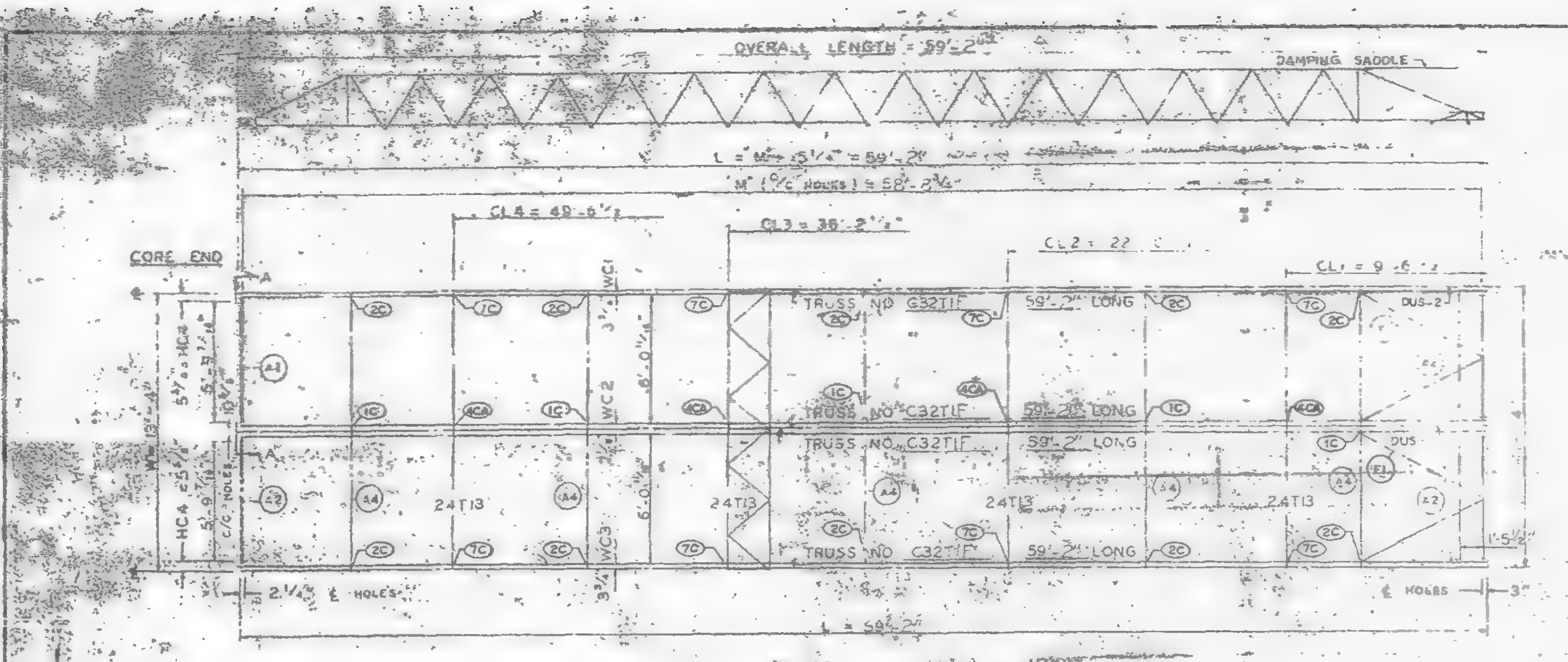
REF DRWG (2)

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)
PANEL BRIE " x 59'-3"

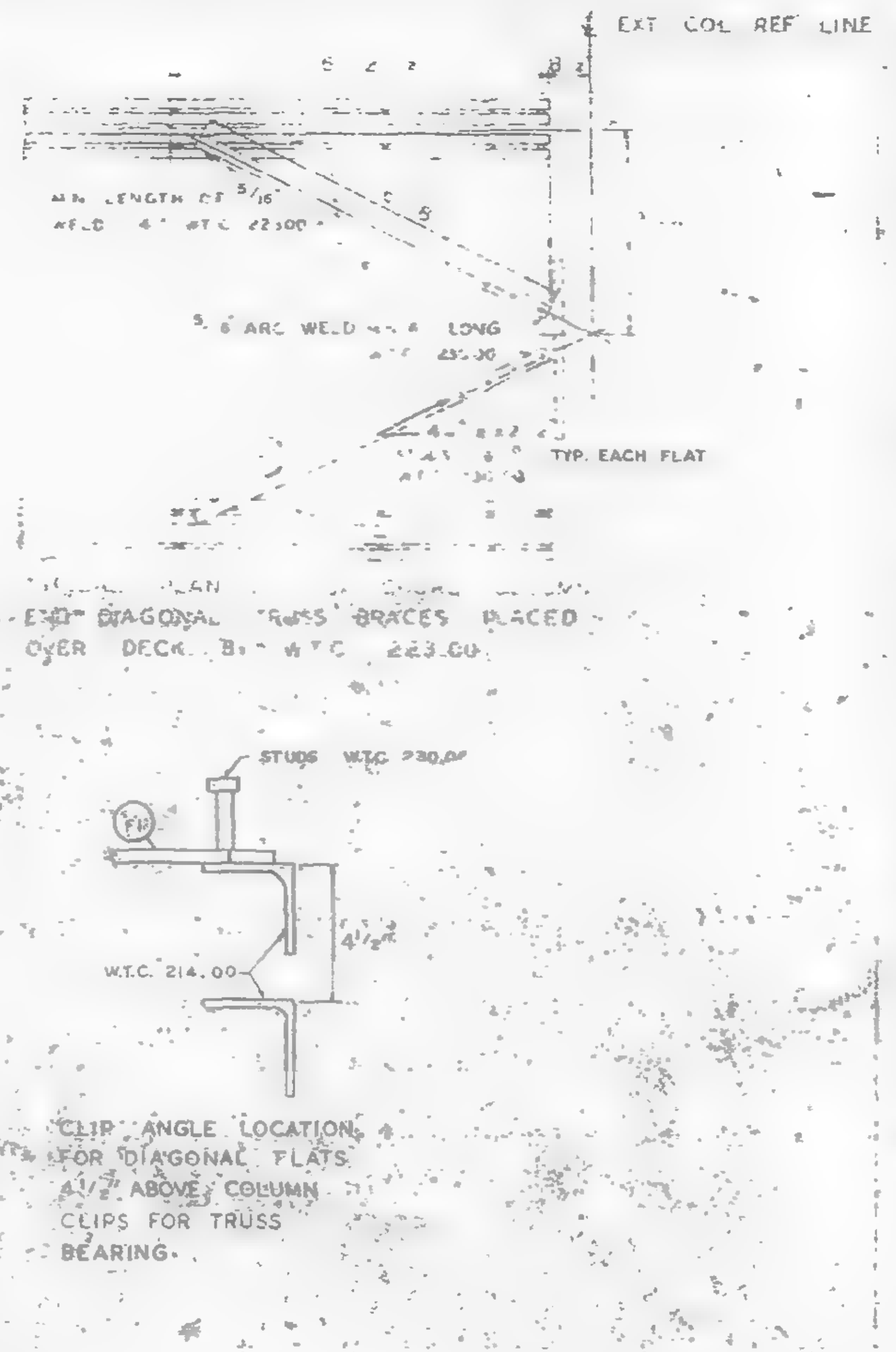
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] 6 PLATS
APPROVED FOR FABRICATION James White FOR PONYA DATE 1/2/70
DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT NO W.T.C. 221
SHEET NO FP-BRIE



OVERALL LENGTH = 59'-2"
DAMPING SADDLE
L = 59'-2"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22
CL1 = 9'-6
CORE END
TRUSS NO. C32T1F 59'-2" LONG
WC1
WC2
WC3
HC4
24T13
DUS-2
DUS
C/C HOLES
2 1/4" ℄ HOLES
℄ HOLES
3"

PANEL NO. BR1F, SIZE 13'-4" x 59'-2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

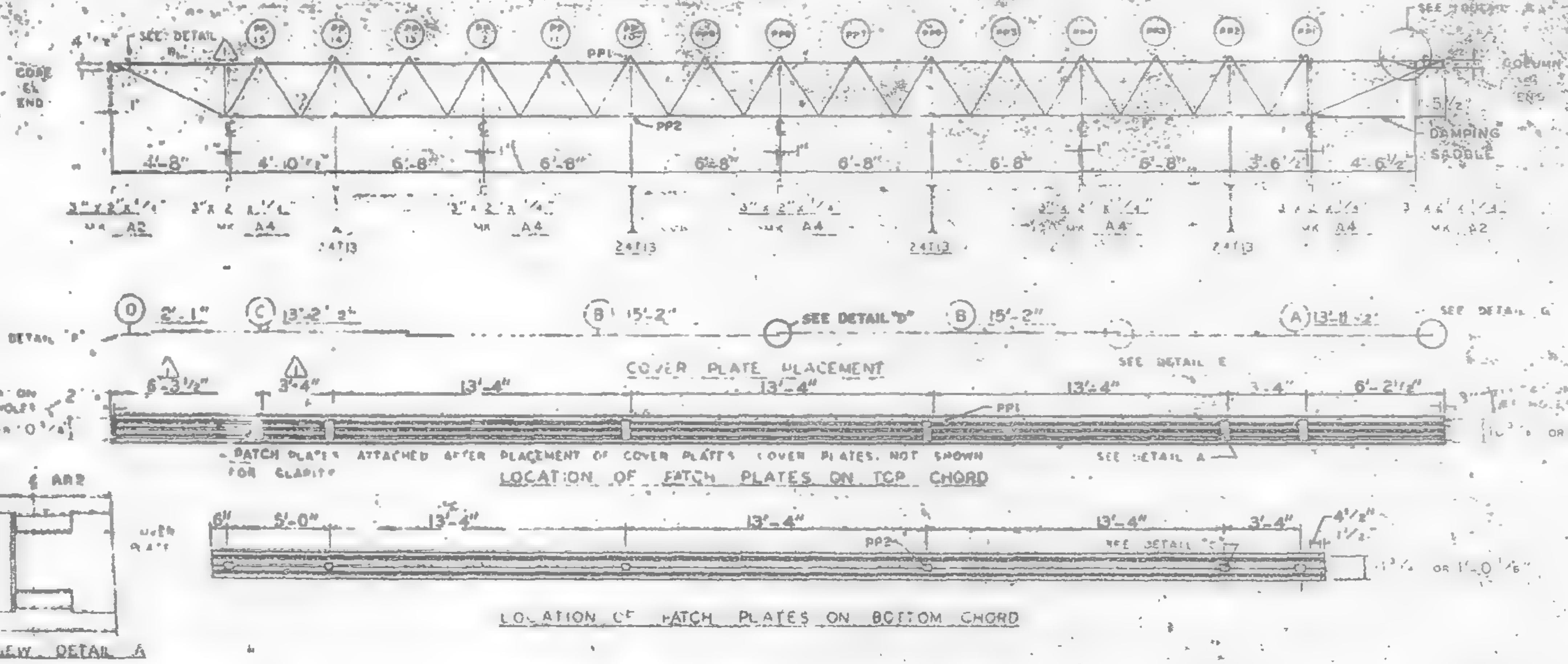


EXT COL REF LINE
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT

END DIAGONAL TRUSS BRACES PLACED OVER DECK. B... W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.F	4	C32T1F - 59'-2"	ST 201F
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST 219
[illegible] ANGLE	A2	4	3 x 2 x [illegible] x 5'-1 [illegible]	ST 303
	A4	5	3 x [illegible] x 3'-3	ST 303
DIAGONAL FLATS	F	4	2 x [illegible] x 6'-8	ST 402
PATCH PLATES	PP1	12	2 x [illegible] x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135 x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/4" x 3 1/4" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 5/8" x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

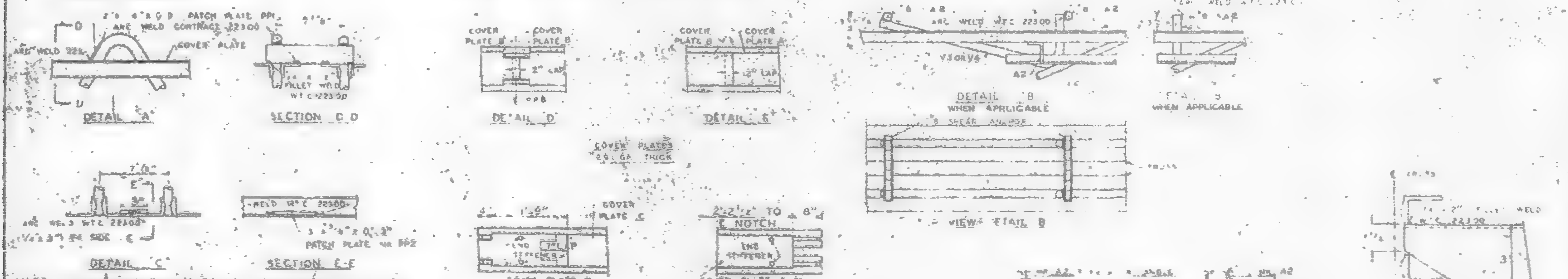


SEE DETAIL "B"
CORE END
SEE DETAIL
COLUMN END
DAMPING SADDLE
PP1
PP2
4'-8"
4'-10 1/2"
6'-8"
3'-6"
4'-6 1/2"
A2
A4
24T13
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
13'-4"
5'-0"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
TOP VIEW DETAIL A

LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.



PATCH PLATE PP1
ARC WELD W.T.C. 223.00
COVER PLATE
DETAIL "A"
SECTION C-D
COVER PLATE B
COVER PLATE C
2" LAP
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
SHEAR ANCHOR
COVER PLATES 26 GA. THICK
VIEW DETAIL B
ARC WELD W.T.C. 22300
PATCH PLATE PP2
DETAIL "C"
SECTION E-F
COVER PLATE
NOTCH
END STIFFENER
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

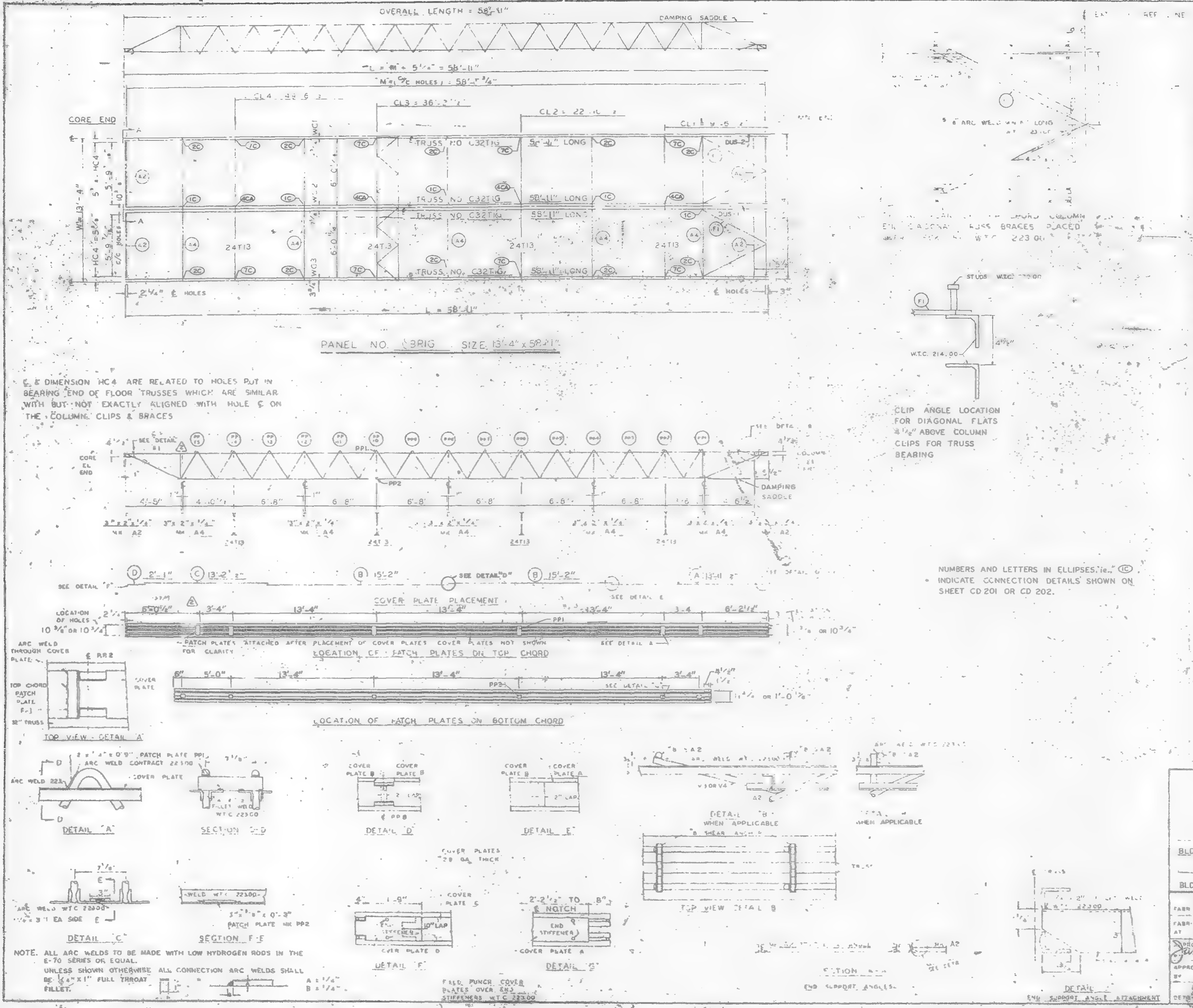
NO.	DATE	REVISION	BY
1	6-3-69	AS NOTED	R.J.

REF DRWG
AB4 3 10-15-68
AB4 15-16 7-22-68
AB4 A2 10-15-68
SA 24 1-6-69
7-AB3-2 1-3-69
AB1-2 7-22-68
7-AB2-B 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48, 70-71(N) & 47-48(S)
PANEL #1F - 4 59'-2"
BLDG. B FLOORS 47-48(EAST & WEST) 70-71(WEST) (1)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. AB3-6 PLATE
APPROVED FOR FABRICATION James White DATE 1/2/70
DRAWN BY DATE
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE
CHECKED BY DATE
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONT NO. W.T.C. 221
SHEET NO. CD-HP1


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
L = 58'-11"
CORE END
CL4 = 44'-9 3
CL3 = 36'-2 1/2
CL2 = 22'-11
CL1 = 9'-5
TRUSS NO. C32T1G
58'-11" LONG
24T13
DUS-2
DUS-1
2 1/4" ℄ HOLES
℄ HOLES
L = 58'-11"
CORE EL END
SEE DETAIL B1
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
PP3
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES 28 GA. THICK
DETAIL "C"
SECTION F-F
WELD WTC 22300
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
℄ NOTCH
END STIFFENER
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C.
W.T.C. 214.00
4 1/2"
F1
DIAGONAL TRUSS BRACES PLACED
223.00

PANEL NO. C3BRIG SIZE 13'-4" x 58'-11"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. ①C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TG	4	C32T1G - 58'-11"	ST 201G
[illegible]	T3	4	24T 3 [illegible]	ST 212
3 [illegible] ANGLE	A2	4	[illegible]	ST 403
	A4	5	[illegible] 4 x 3 3	ST 403
[illegible]	[illegible]	[illegible]	2 x 3/8 x 6' 8	ST 402
PATCH PLATES	PP1	12	2 x [illegible] x 0'-3	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.135" x 13'-11 1/2"	ST 303
	B	4	9" x 0.135" x 15'-2	ST 303
	C	2	9" x .0135" x 13'-2 1/2	ST303
	D	2	9" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST298
	DUS 2	1	3 1/2 x 3 1/2 x 3/8 x 3' 6 7/8	ST298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
②	6-5-69	AS NOTED	R.J.P.
①	7-15-68	GENERAL	T.M.C.

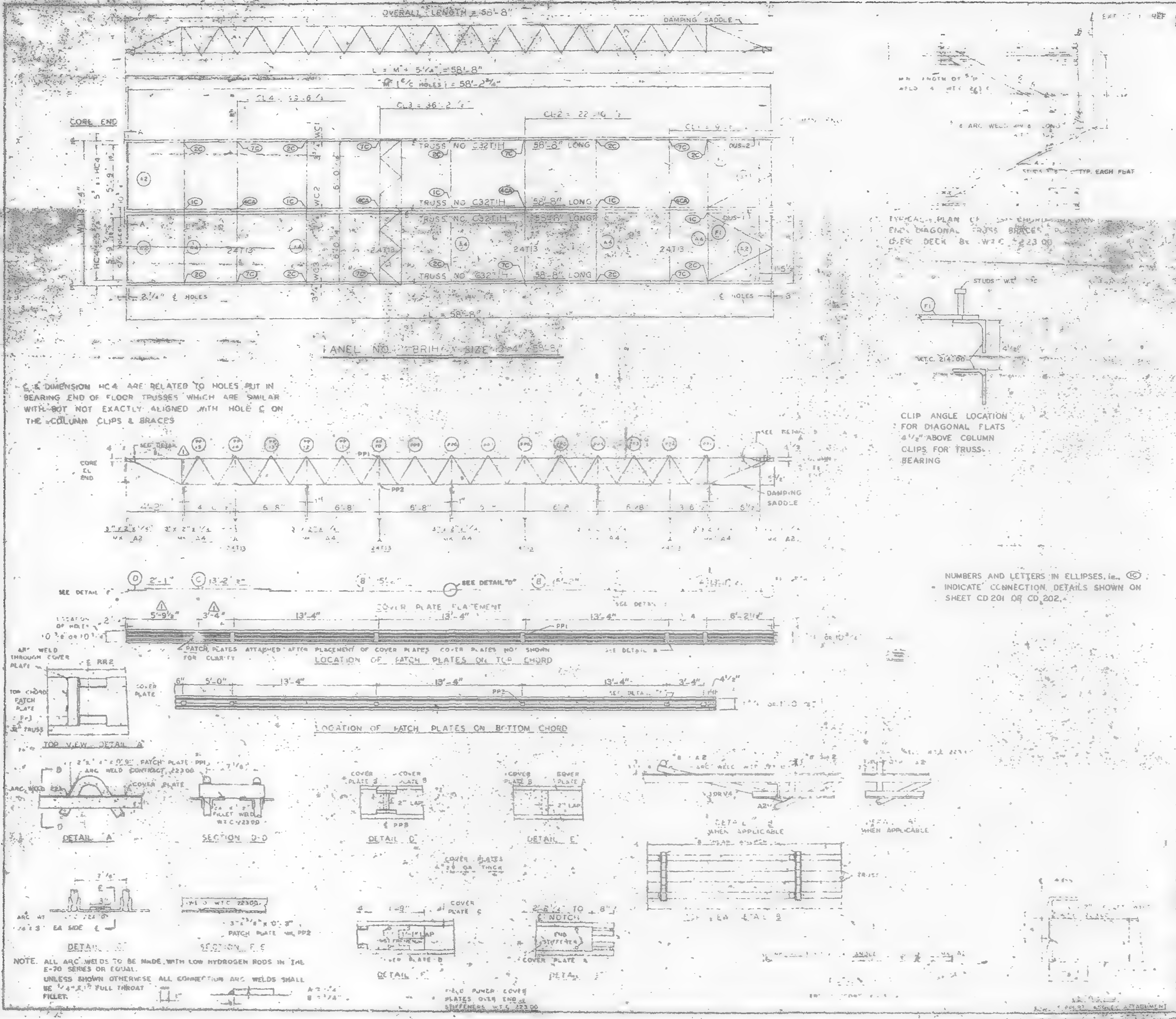
② REF DRWG

7 AB4 3	10-15-69
7-AB4 - 15 & 16	7-22-69
7-AB4 - 42	10-15-69
SA-JA24	1-6-69
7-AB3 - 2	1-3-68
7 AB1 - 2	7-22-68
7-AB2 - 8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11, 39 [illegible] 39-40 (SOUTH)
PANEL [illegible] 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) ②

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 6 PLATE
APPROVED FOR FABRICATION James White PNYA DATE 1/2/70
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY A.R. PAUL DATE FEB. 24, 1968
IN CHARGE OF PROG. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP 5BRIG


OVERALL LENGTH = 58'-8"
DAMPING SADDLE
L = M + 5¼" = 58'-8"
CORE END
TRUSS NO. C32T1H 58'-8" LONG
DUS-2
DUS-1
2¼" ℄ HOLES
℄ HOLES
L = 58'-8"
PANEL NO. BRIH SIZE 13'-4" x 58'-8"
CORE ℄ END
SEE DETAIL B
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
SECTION F-F
DETAIL "F"
COVER PLATES
PATCH PLATE MK. PP2
WHEN APPLICABLE
TYP. EACH FLAT
STUDS W.T.C. 223.00
W.T.C. 214.00
AS NOTED

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF ... END DIAGONAL TRUSS BRACES ... OVER DECK ... W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	[illegible]	4	C32T1H 58'-[illegible]	ST 20[illegible]
[illegible]	T3	4	[illegible] 13'-2"	ST 213
3" x 2" x ¼" ANGLE	A2	4	[illegible]	ST 403
	A4	5	3 x [illegible] 3	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible] x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0.35" x 13'-11½"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CS1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

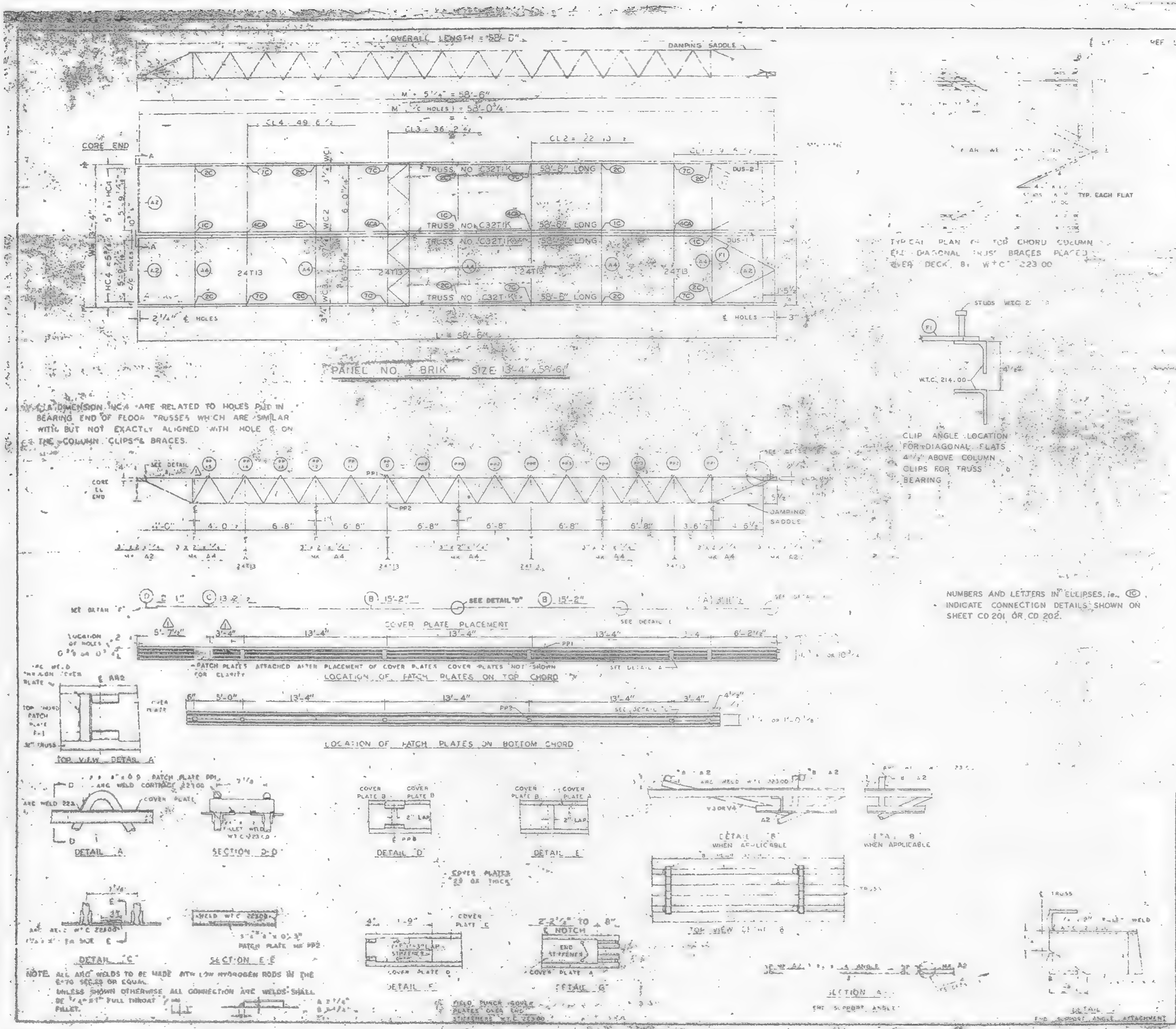
△1	6-5-69	AS NOTED	R.J.P.
NO.	DATE	REVISION	BY

△1 REF DRWG
7-AB4-3 10-15-68
7-AB4 15,16 7-22-68
7-AB4 42 10-15-68
SA [illegible] 1-6-69
7-AB3-2 1-3-68
7-AB1 2 7-22-68
7-AB2 8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80(N)
PANEL BRIH 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) △1

FABR. BY LACLEDE STEEL COMPANY
FABR. AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] DATE
APPROVED FOR FABRICATION James White DATE 1/2/70
DRAWN BY [illegible] DATE 10-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.H. CHURA DATE 10-22-68
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET FP-BRI-[illegible]


OVERALL LENGTH = 58'-0"
DAMPING SADDLE
M = 5'¼" = 58'-6"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10"
CORE END
TRUSS NO. C32T1K 58'-6" LONG
24T13
L = 58'-6"
€ HOLES
PANEL NO. BRIK SIZE 13'-4" x 58'-6"
C.L. DIMENSION HC4 ARE RELATED TO HOLES PLD IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.
TYPICAL PLAN OF TOP CHORD COLUMN ... DIAGONAL TRUSS BRACES PLACED OVER DECK, BY W.T.C. 223.00
TYP. EACH FLAT
STUDS W.T.C. 2...
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES, ie., 1C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
SEE DETAIL
PP1
PP2
4'-0" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-6" 4'-6½"
COVER PLATE PLACEMENT
D 2'-1" C 13'-2½" B 15'-2" SEE DETAIL "D" B 15'-2" A 13'-11½"
5'-7½" 3'-4" 13'-4" 13'-4" 13'-4" 6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
COVER PLATES 20 OR THICK
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
END STIFFENER
€ NOTCH
SECTION A-A
DETAIL END SUPPORT ANGLE ATTACHMENT
FIELD TOUCH COVER PLATES OVER END STIFFENERS W.T.C. 22300

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"-2" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PC.	SIZE	
FLOOR TRUSSES	T.K	4	2? K - 58'-6	ST201A
BRIDGING TRUSSES	T.3	4	23T - 13'-3	ST 248
[illegible] ANGLE	A2	4	[illegible]	403
	A4	5	[illegible]	403
DIAGONAL FLATS		4	[illegible] x 6'-8	[illegible]
PATCH PLATES	PP1	12	[illegible] x 1'-0-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9"x.035 x 13'-11½"	ST303
	B	4	9"x.0135 x 15'-2	ST303
	C	2	9"x.035" x 13'-2½	ST303
	D	2	9"x.035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-5	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

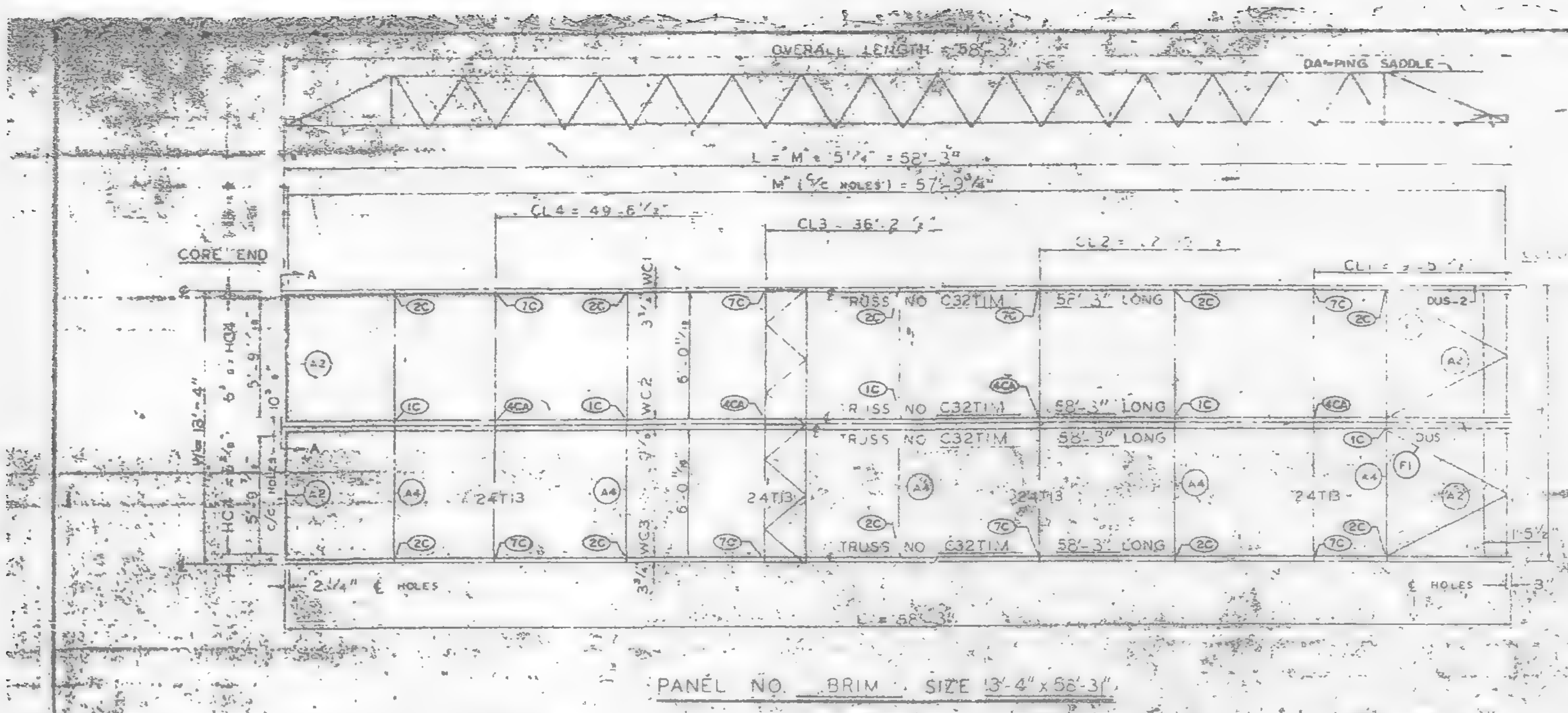
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	

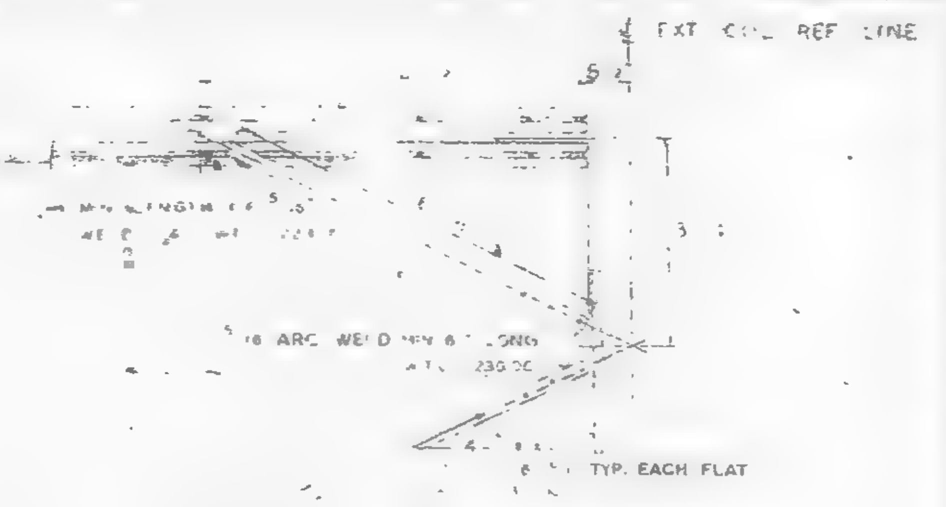
REF DRWG
- 7-AB4-2 10-15-68
- 7-AB4-15 2-22-69
- 7-AB1-42 10-15-68
- 5A-4 1-6-69
- 7-AB3-2 1-3-69
- 7-AB-2 7-22-68
- 7-A92-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

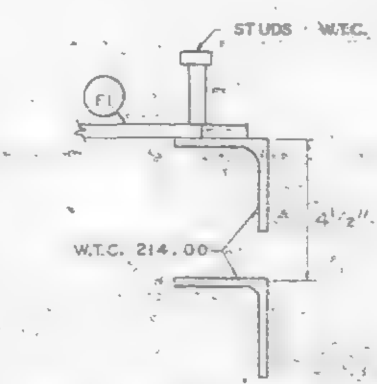
BLDG A FLOORS 46(N) + 45-46(C)
PANEL NO. BRIK
BLDG. B FLOOR 46 (EAST & WEST) 45 (EAST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A? 61 PLATE
APPROVED FOR FABRICATION James White DATE 1/2/70
DATE
APPROVED FOR FABRICATION DATE
CHECKED BY DATE
IN CHARGE OF
FABRICATION CONT. NO. 321
SHEET NO.


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
L = "M" + 5'-1/4" = 58'-3"
CL4 = 49'-6 1/2"
CL3 - 36'-2
CORE END
TRUSS NO C32T1M 58'-3" LONG
TRUSS NO C32T1M 58'-3" LONG
TRUSS NO C32T1M 58'-3" LONG
TRUSS NO C32T1M 58'-3" LONG
24T13
DUS-2
DUS
C HOLES
PANEL NO. BRIM SIZE 13'-4" x 58'-3"


EXT COL REF LINE
ARC WELD
TYP. EACH FLAT

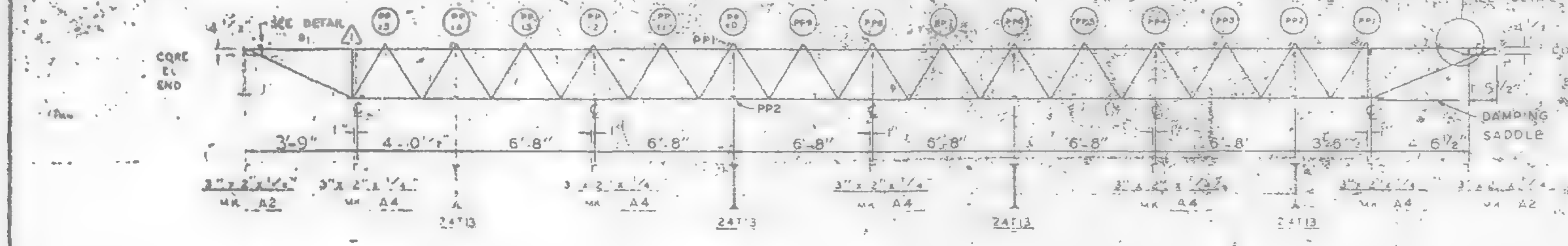
END DIAGONAL TRUSS BRACES PLACED ON DECK BY W.T.C. 223.00


STUDS - W.T.C. 230.00
W.T.C. 214.00

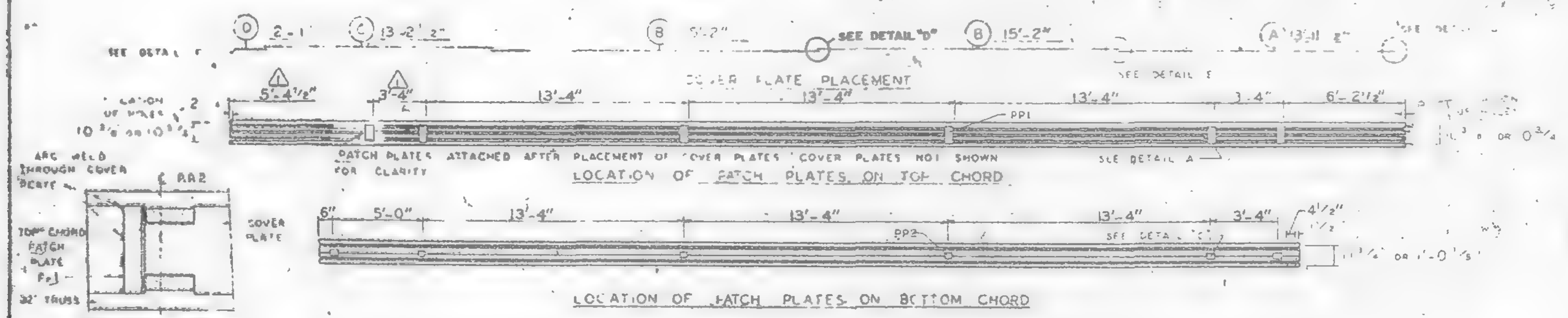
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	NO	SIZE	
FLOOR TRUSSES	[illegible]	4	C32T1M - 5[illegible]	ST 201
BRIDGING TRUSSES	T 3	4	24T 3 - 13 - 3	ST 213
[illegible] ANGLE	A[illegible]	[illegible]	[illegible]	ST 403
	A4	5	[illegible]	ST 403
DIAGONAL FLATS	[illegible]	4	[illegible]	ST 402
PATCH PLATES	PP	12	[illegible] x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 13'-11 1/2"	ST 303
	B	4	9" x 0.35" x 15'-2"	ST 303
	C	2	9" x 0.35" x 13'-2 1/2"	ST 303
	D	2	9" x 0.35" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/8"	ST 400
	P2	8	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

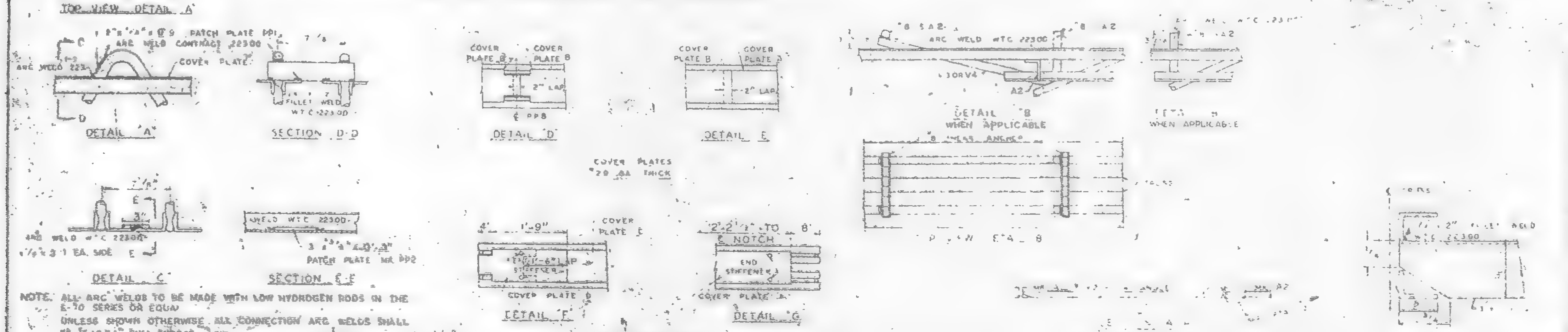

SEE DETAIL B1
CORE EL END
PP1
PP2
COLUMN END
DAMPING SADDLE
3'-9"
4'-0 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
6'-2"
MK A2
MK A4
24T13

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.


SEE DETAIL "D"
15'-2"
COVER PLATE PLACEMENT
5'-4 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
4 1/2"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
COVER PLATE
TOP VIEW DETAIL A

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.J.

△1 REF DRWG
7 AB2 3 10-15-68
7 AB4 1516 7-22-68
7 AB4 42 10-15-68
SA 4 1-6-69
7 AB3 2 [illegible]
7 AB1 2 7-22-68
7 AB2 9 7-22-68


PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL A
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL D
DETAIL E
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL B WHEN APPLICABLE
WHEN APPLICABLE
COVER PLATES .20 GA THICK
ARC WELD W.T.C. 223.00
1/4" x 3" 1 EA. SIDE
DETAIL C
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE
NOTCH
END STIFFENER
COVER PLATE D
COVER PLATE A
DETAIL F
DETAIL G

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

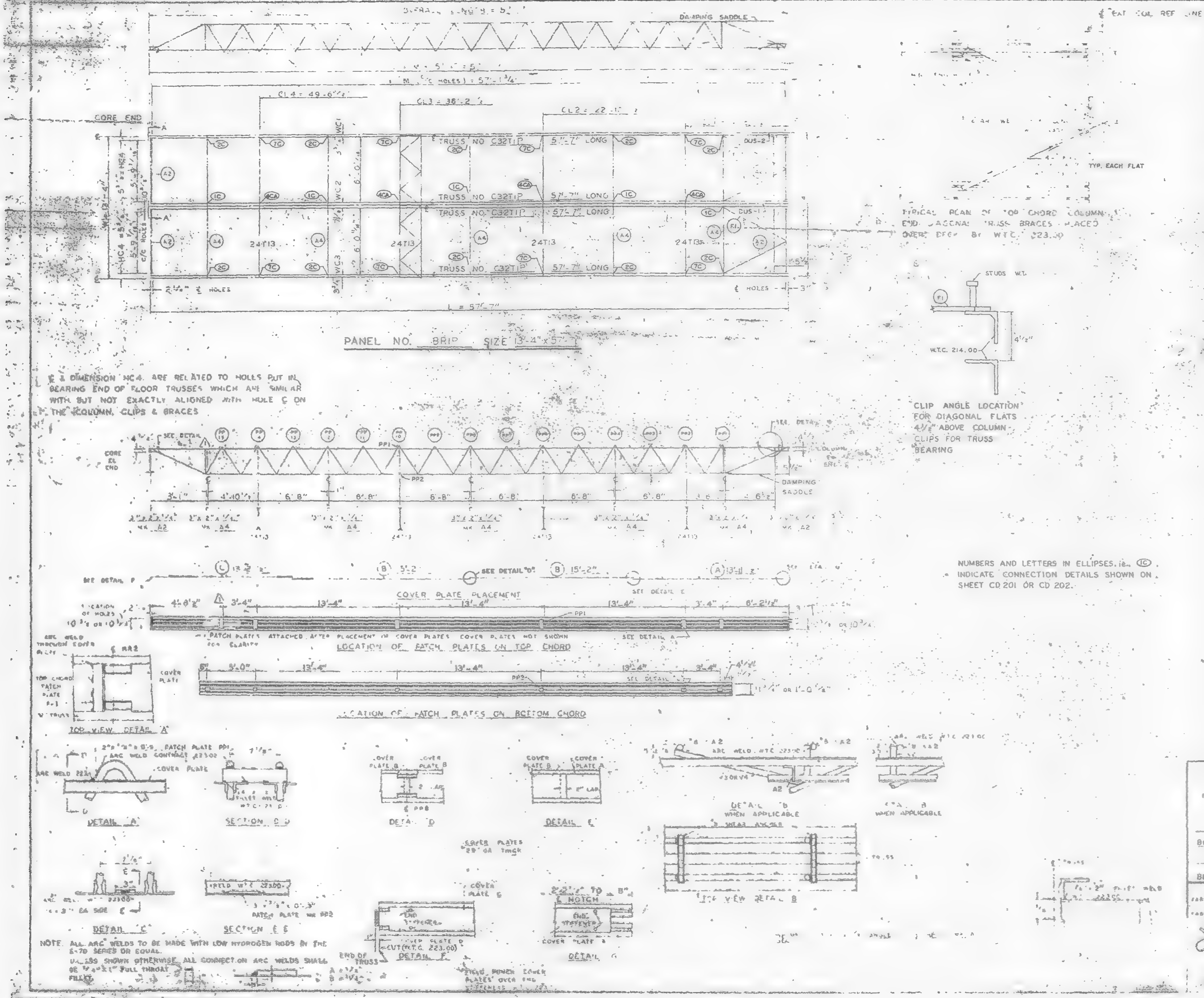
A = 1/4"
B = 1/4"

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL BRIM 13'-4" x 58'-3"
BLDG. B FLOORS 72-73 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 - 6 PLATE
APPROVED FOR FABRICATION James White Co. N.Y.A. DATE [illegible]/72
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF [illegible]
DETAILED BY A. E. WEBER
FABRICATION CONT. NO. W.T.C. 2[illegible]
SHEET NO. BD-[illegible]


DAMPING SADDLE
CORE END
TRUSS NO. C32T1P
5'-7" LONG
24T13
CL4 = 49'-6"
CL3 = 36'-2"
CL2 = 22'-1"
L = 57'-7"
PANEL NO. BRIP SIZE 13'-4" x 57'-7"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E E
DETAIL "F"
DETAIL "G"
TYP. EACH FLAT
STUDS W.T.
W.T.C. 214.00
4 1/2"

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE ¢COLUMN, CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	4	[illegible]	ST201
BRIDGING TRUSSES	T3	4	24T13 - 13 - 3"	[illegible]
[illegible] ANGLE	A2	[illegible]	[illegible]	ST 303
	A4	5	[illegible]	ST 303
DIAGONAL FLATS	[illegible]	4	[illegible] 6-8	ST 302
PATCH PLATES	PP1	12	[illegible] 0'-9"	ST 400
	PP2	12	[illegible] 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-5"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	[illegible]

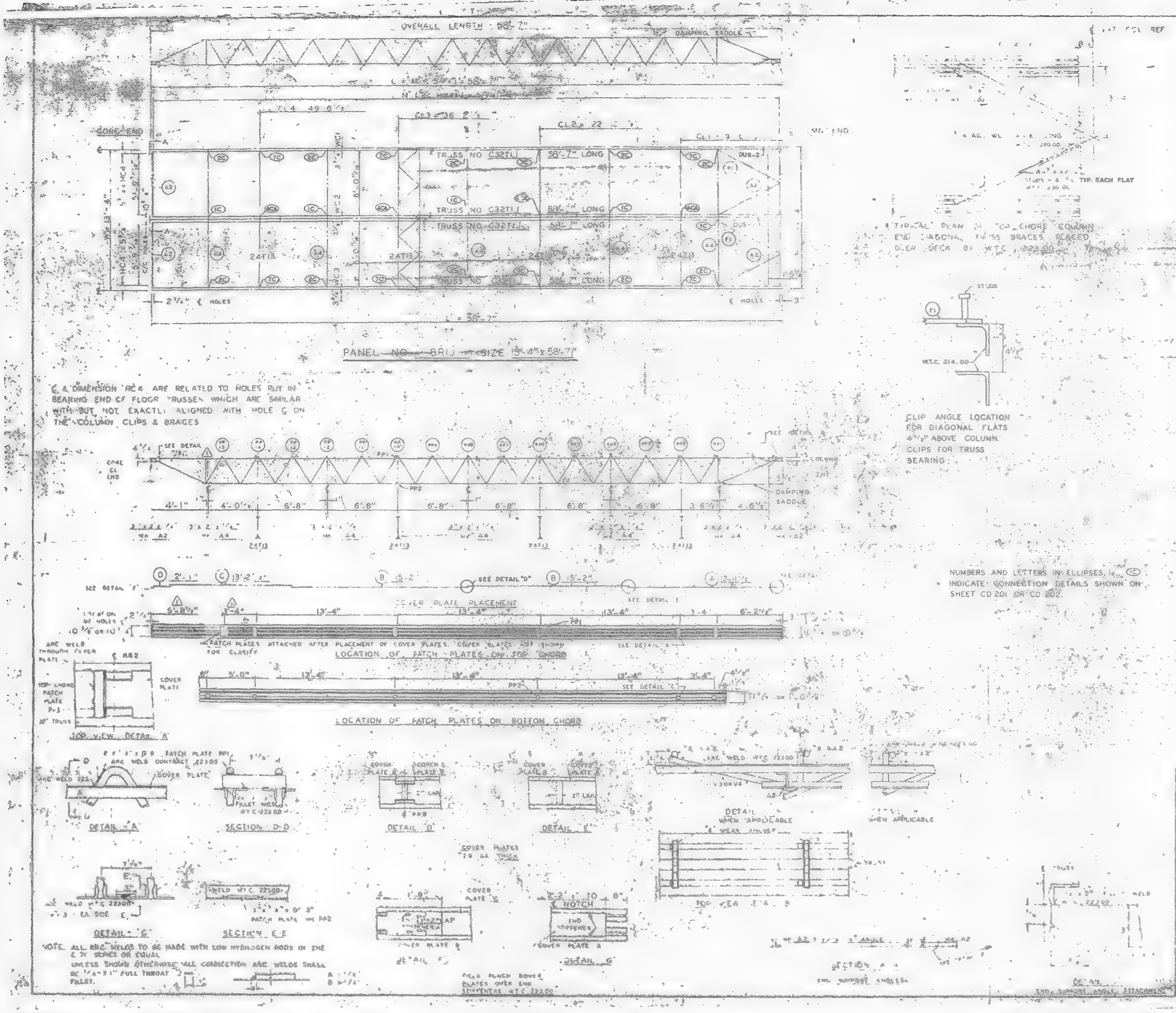
REF DRWG
7-AB4-3 10-15-68
7-AB4-11,18 7-22-68
7-AB4-42 10-15-68
△1 SA 24 7-6-69
7-AB3-2 1-2-69
7-AB1-2 7-22-68
7-AB2-2 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74 N
PANEL [illegible] x 57'-7"
BLDG B FLOORS 74 (WEST) △1

FABRICATED BY LACLEDE STEEL COMPANY

James White 1/2/70


OVERALL LENGTH 58'-7"
DAMPING SADDLE
CORE END
TRUSS NO C32T1J 58'-7" LONG
24T13
DUS-2
F1
A2
A4
2C
7C
1C
4CA
2 1/4" ℄ HOLES
℄ HOLES
L = 58'-7"
PANEL NO. B81J SIZE 13'-4" x 58'-7"
SEE DETAIL
CORE ℄ END
4'-1"
4'-0 1/2"
6'-8"
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
13'-4"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
WELD W.T.C. 22300
3 1/2" x 3/8" x 0'-3" PATCH PLATE MK PP2
COVER PLATES 20 GA THICK
END STIFFENER
℄ NOTCH
DETAIL WHEN APPLICABLE
WHEN APPLICABLE
TOP VIEW
SECTION A-A
STUDS
W.T.C. 214.00
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. 1C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"-3"-1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T1 5[illegible]	ST 201
[illegible] TRUSSES	T-3	4	24T13 13'-3"	ST 219
[illegible] ANGLE	A2	[illegible]	[illegible] x 5[illegible] 6	ST 403
	A4	5	[illegible] x 3-3	ST 403
DIAGONAL FLATS	[illegible]	4	[illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3 1/2" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.035" x 13'-11 1/2"	ST 303
	B	4	9" x .0135 x 15'-2"	ST 303
	C	2	9" x .035" x 13'-2 1/2"	ST 303
	D	2	9" x .035" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

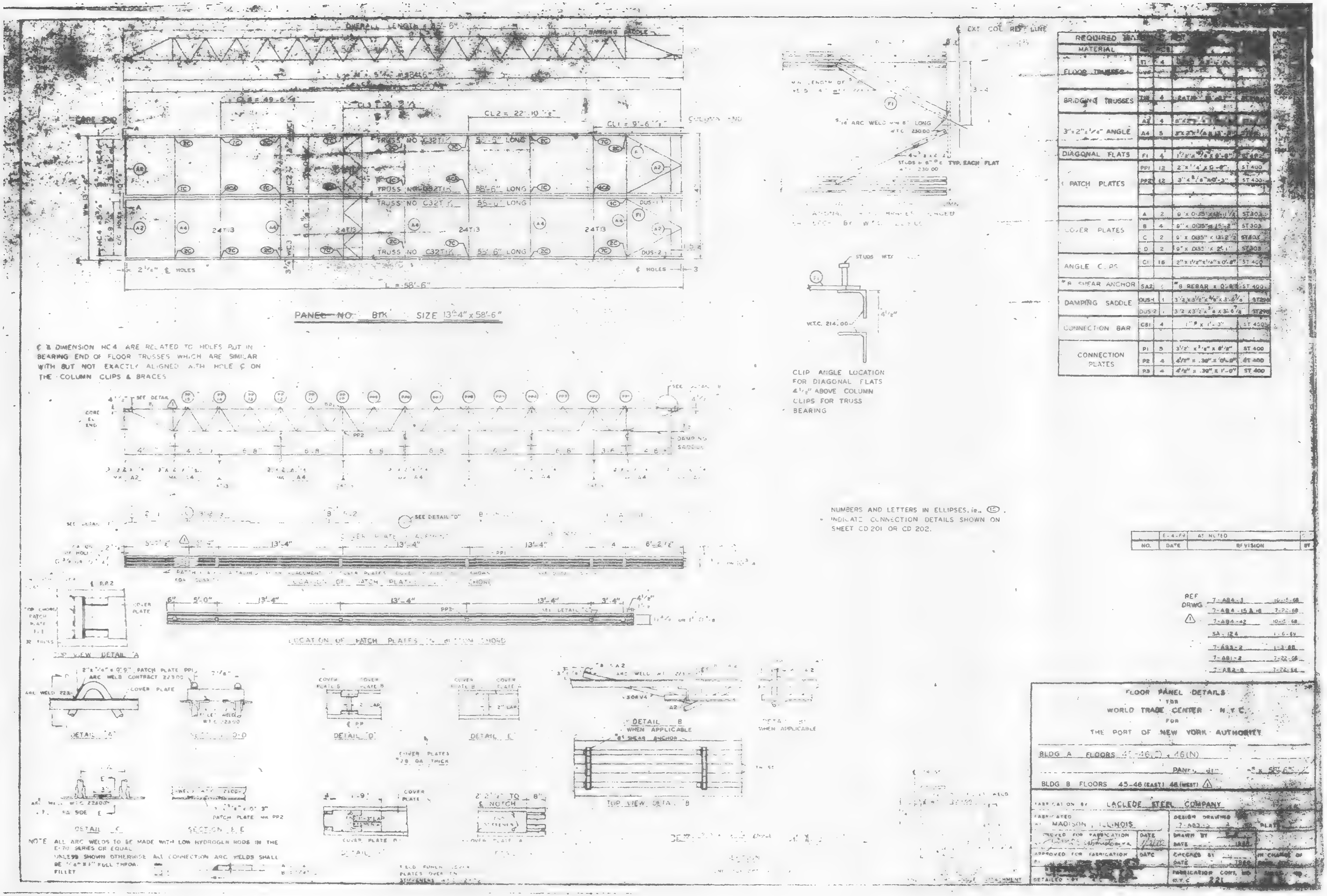
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	RJP

REF DRWG		
	7 AB4 3	10-15-68
	7 AB4 15,16	7-22-68
	7 AB4 42	10-15-68
	SA 124	1-6-69
1	7 AB3-2	1-3-69
	7 AB1-2	7-22-68
	7 AB2-0	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40 (N)
PANEL NO. [illegible]
BLDG. B FLOORS 40 (WEST) 1

LACLEDE STEEL COMPANY
MADISON ILLINOIS
James W. Lo[illegible]
DATE 1/2/70
APPROVED FOR FABRICATION FOR FABRICATOR
DATE
DETAILED BY A. WEBER
FABRICATION CONT. NO. 221
SHEET NO. FP-01


OVERALL LENGTH
BEARING SADDLE
CORE END
COLUMN END
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
TRUSS NO. C32T1K 55'-6" LONG
TRUSS NO. C32T1K 55'-6" LONG
TRUSS NO. C32T1K 55'-6" LONG
24T13
DUS-2
℄ HOLES
L = 58'-6"
EXT. COL. REF. LINE
5/16 ARC WELD
STUDS
TYP. EACH FLAT
W.T.C. 230.00
W.T.C. 214.00
STUDS W.T.C.
SEE DETAIL B
SEE DETAIL D
DAMPING SADDLE
PP1
PP2
13'-4"
6'-2 1/2"
5'-0"
3'-4"
COVER PLATE
LOCATION OF PATCH PLATES TO BOTTOM CHORD
TOP VIEW DETAIL A
2"x1/4"x0'-9" PATCH PLATE PP1 ARC WELD CONTRACT 22300
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
COVER PLATES 28 GA THICK
DETAIL B WHEN APPLICABLE
#8 SHEAR ANCHOR
DETAIL B' WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE PP2
2'-2 1/2" TO 8" ℄ NOTCH
COVER PLATE A
COVER PLATE D

PANEL NO. B1K SIZE 13'-4" x 58'-6"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x3" FULL THROAT FILLET

REQUIRED [illegible]				
MATERIAL	[illegible]	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1	4	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	[illegible]	[illegible]
3"x2"x1/4" ANGLE	A2	4	[illegible]	[illegible]
	A4	5	3"x2"x1/4"x [illegible]	[illegible]
DIAGONAL FLATS	F1	4	1 1/2"x [illegible]	[illegible]
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x5/8"x0'-3"	ST 400
COVER PLATES	A	2	9"x 0.135"x [illegible] 1/2	ST 303
	B	4	9"x 0.135"x 15'-2"	ST 303
	C	2	9"x 0.135"x 13'-2 1/2	ST 303
	D	2	9"x 0.135"x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-8 [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 5/8"x3'-6 7/8"	ST 298
	DUS-2	1	3 1/2"x3 1/2"x 5/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2"x 3/8"x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
	6-4-69	AS NOTED	[illegible]

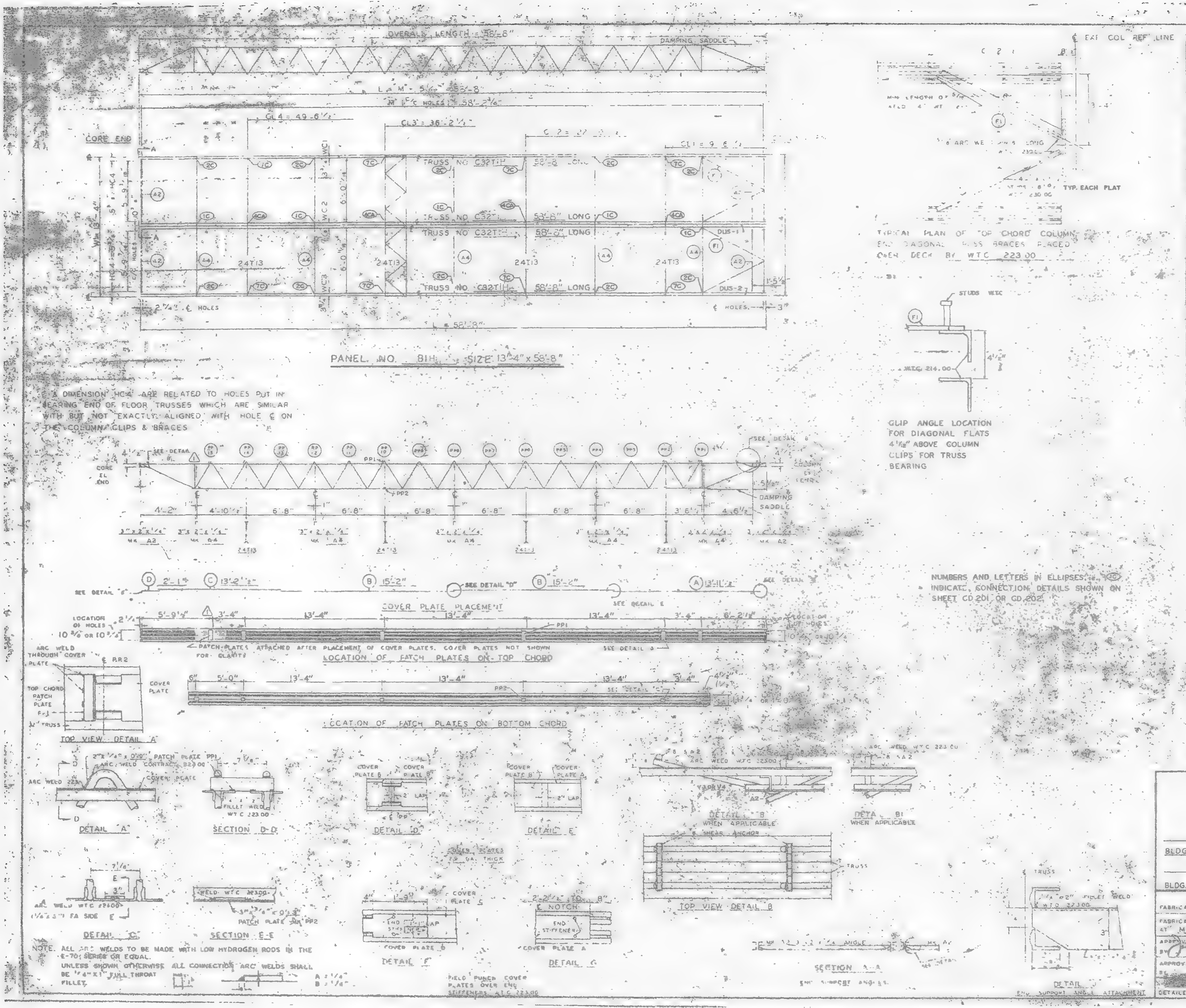
REF DRWG

7-A84-3	10-15-68
7-A84-15 & 16	7-22-68
7-A84-42	10-15-68
SA-124	1-6-69
7-A83-2	1-3-68
7-A81-2	7-22-66
7-A82-8	7-22-66

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 45-46(S) & 46(N)
PANEL B1K 13'-4" x 58'-6"
BLDG B FLOORS 45-46 (EAST) 46 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION DATE
APPROVED FOR FABRICATION DATE
DETAILED BY
DESIGN DRAWING 7-A83-2
DRAWN BY
DATE 1968
CHECKED BY
DATE 1968
FABRICATION CONT. NO. W.T.C. 221
IN CHARGE OF
SHEET NO.


OVERALL LENGTH = 58'-8"
DAMPING SADDLE
CORE END
Ȼ EXT COL REF LINE
CL 4 = 49'-6½"
CL 3' = 36'-2½"
CL 1 = 9'
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
24T13
DUS-1
DUS-2
L = 58'-8"
PANEL NO. 81H SIZE 13'-4" x 58'-8"
Ȼ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Ȼ ON THE COLUMN CLIPS & BRACES
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
TYP. EACH PLAT
STUDS WTC
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL B
CORE EL END
COLUMN
DAMPING SADDLE
4'-2"
4'-10½"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
NUMBERS AND LETTERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
WHEN APPLICABLE SHEAR ANCHOR
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.
A = ¼"
B = ⅛"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1	4	C32T1 - 58'-8"	ST20
BRIDGING TRUSSES	T13	4	24T13 - 13'-3	ST218
3" x 2" x ¼ ANGLE	A2	4	3 x 2 x ¼ x 5 [illegible] 6	ST403
	A4	5	3 x 2 x ¼ x [illegible]	ST4[illegible]
DIAGONAL FLATS	F	4	[illegible] 2 x [illegible] 8 x 5 6	ST402
PATCH PLATES	PP1	12	2 x ¼ x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11½"	ST.303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 18'-2½"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
CONNECTION BAR	CBE	4	1" # x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	
1	6-4-69	AS NOTED	

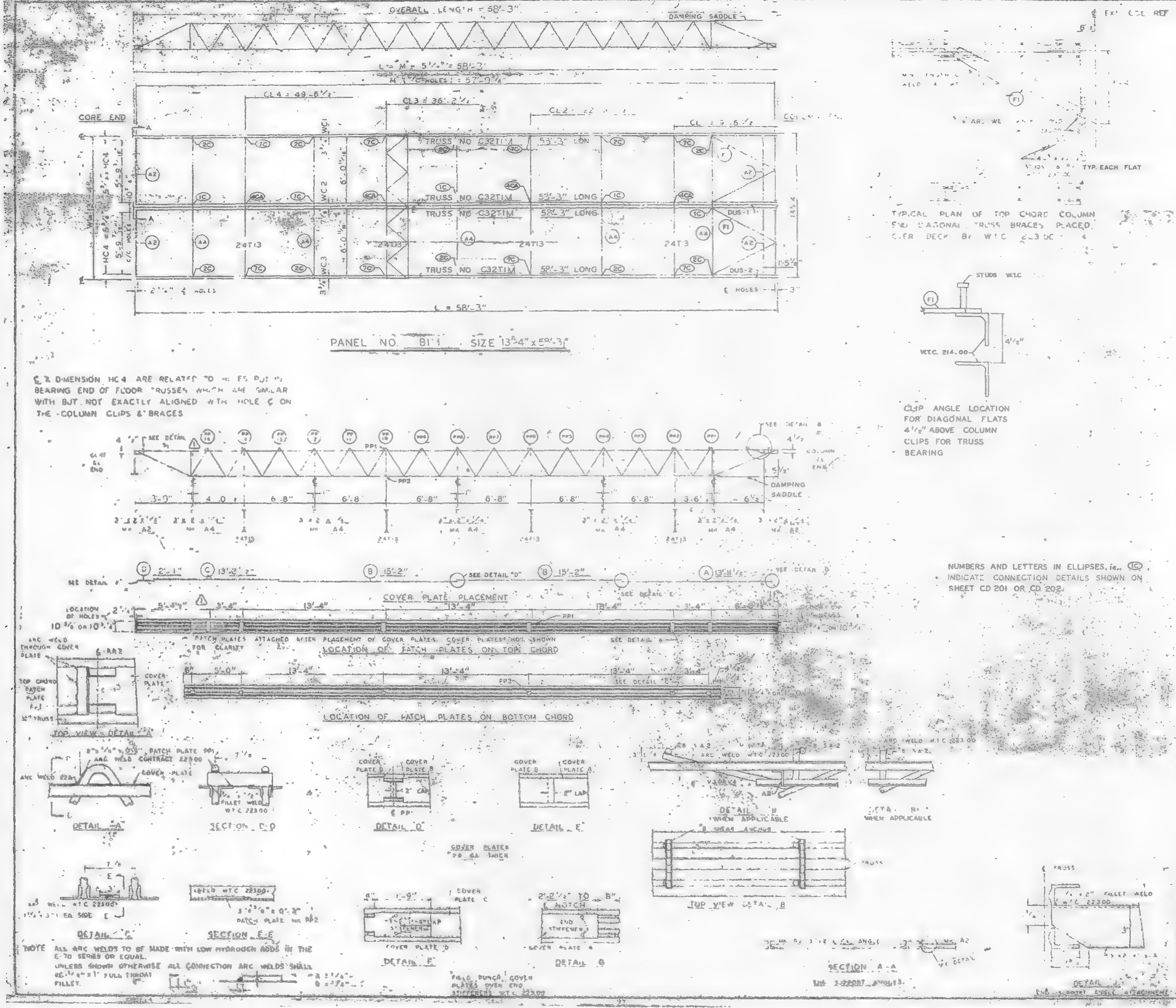
REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA 124	1-6-6[illegible]
7-AB3-2	[illegible]
7-AB1-2	7-22-68
7-AB2-9	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL [illegible] 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-5
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 4/3/69
DRAWN BY
DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY
DATE
DETAILED BY
FABRICATION CONT. NO.
SHEET FE 21


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
CORE END
CL4 = 49'-6½"
CL3 = 36'-2½"
TRUSS NO C32T1M 58'-3" LONG
24T13
PANEL NO. B1'1 SIZE 13'-4" x 58'-3"
L = 58'-3"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C.
STUDS W.T.C.
W.T.C. 214.00
4½"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION C-C
DETAIL "D"
DETAIL "E"
COVER PLATES 20 GA. THICK
DETAIL "H" WHEN APPLICABLE
#8 SHEAR ANCHOR
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
3"x3/8"x 0'-3" PATCH PLATE MK PP2
DETAIL F
DETAIL G
FIELD DUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
SECTION A-A
DETAIL
NUMBERS AND LETTERS IN ELLIPSES, i.e. 1C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

℄ & DIMENSION HC4 ARE RELATED TO [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. 1C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST 20
BRIDGING TRUSSES	T13	4	24T13 - 13'-3	BT 218
3"x2"x¼ ANGLE	A2	4	3x2x¼x[illegible]	ST 403
	A4	5	3x2x¼x[illegible]	ST 403
DIAGONAL FLATS	F1	4	[illegible]x⅜"x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x[illegible]x 0'-3"	ST 4[illegible]
	PP2	12	3x⅜"x 0'-3"	ST 4[illegible]
COVER PLATES	A	2	8"x.035"x 13'-11½"	ST303
	B	4	9"x .035 x 15'-2"	ST303
	C	2	9"x .035"x 13'-2½"	ST303
	D	2	9"x .035 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2"x 1½"x¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x 3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1⅜ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½"x⅜"x 6½"	ST 400
	P2	4	4½"x .30"x 0'-9"	ST 400
	P3	4	4½"x .30"x 1'-0"	ST 400

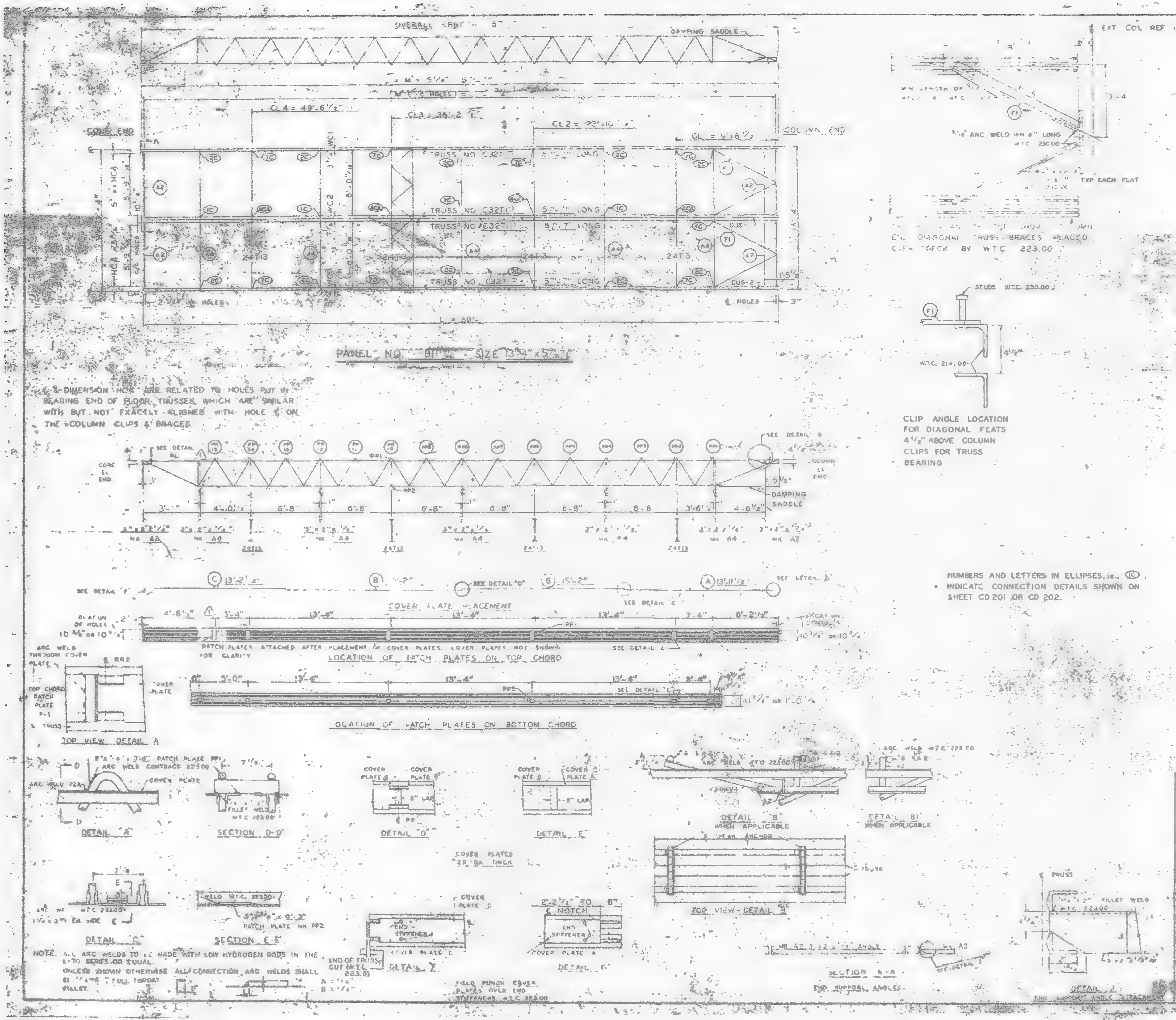
NO.	DATE	REVISION
1	6-4-69	AS NOTED

REF DRWG
7-AB4-13 10-15-68
7-AB4-15 & 16 7-22-68
⚠1 7-A114-42 10-15-69
SA1-12-5[illegible] 1-6-69
7-AB1-2 1-3-68
7-AB1-2 7-22-68
7-AB7-59 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 [illegible]
PANEL B[illegible]
BLDG B FLOORS 72-73 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3 5[illegible] PLATE
APPROVED FOR FABRICATION BY [illegible] FOR [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968
FABRICATION CONT. [illegible]


OVERALL LENGTH
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6½"
CL3 = 36'-2"
CL2 = 22'-10"
TRUSS NO. C32T
24T13
DUS-1
DUS-2
L = 59'
PANEL NO. B1 · SIZE 13'-4" x 57'
EXT COL REF LINE
TYP EACH FLAT
E/W DIAGONAL TRUSS-BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW-DETAIL B
COVER PLATES 20 GA THICK
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLE
DETAIL J
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
END OF TRUSS CUT (W.T.C. 223.0)

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	[illegible]	4	C32T [illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	24T13 [illegible]	[illegible]
[illegible] ANGLE	A2	4	3" x 2" x ¼" x 5 [illegible]	ST 400
	A4	5	3" x 2" x ¼" x 3' [illegible]	[illegible]
DIAGONAL PLATE	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	[illegible]	12	[illegible]	[illegible]
	[illegible]	12	[illegible]	[illegible]
COVER PLATES	A	2	[illegible] x .0135 x 3-11 [illegible]	[illegible]
	B	[illegible]	9" x .0135 x 15'-2"	ST 309
	C	2	9" x .0135" x 13'-2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 7-6"	ST 400
#5 SHEAR ANCHOR	SA2	[illegible]	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	9	3½" x ⅜" x 8¼"	ST 400
	P2	4	4½" x .30" x 0'-9"	T 400
	P3	4	4½" x .39" x 1'-0"	ST 400

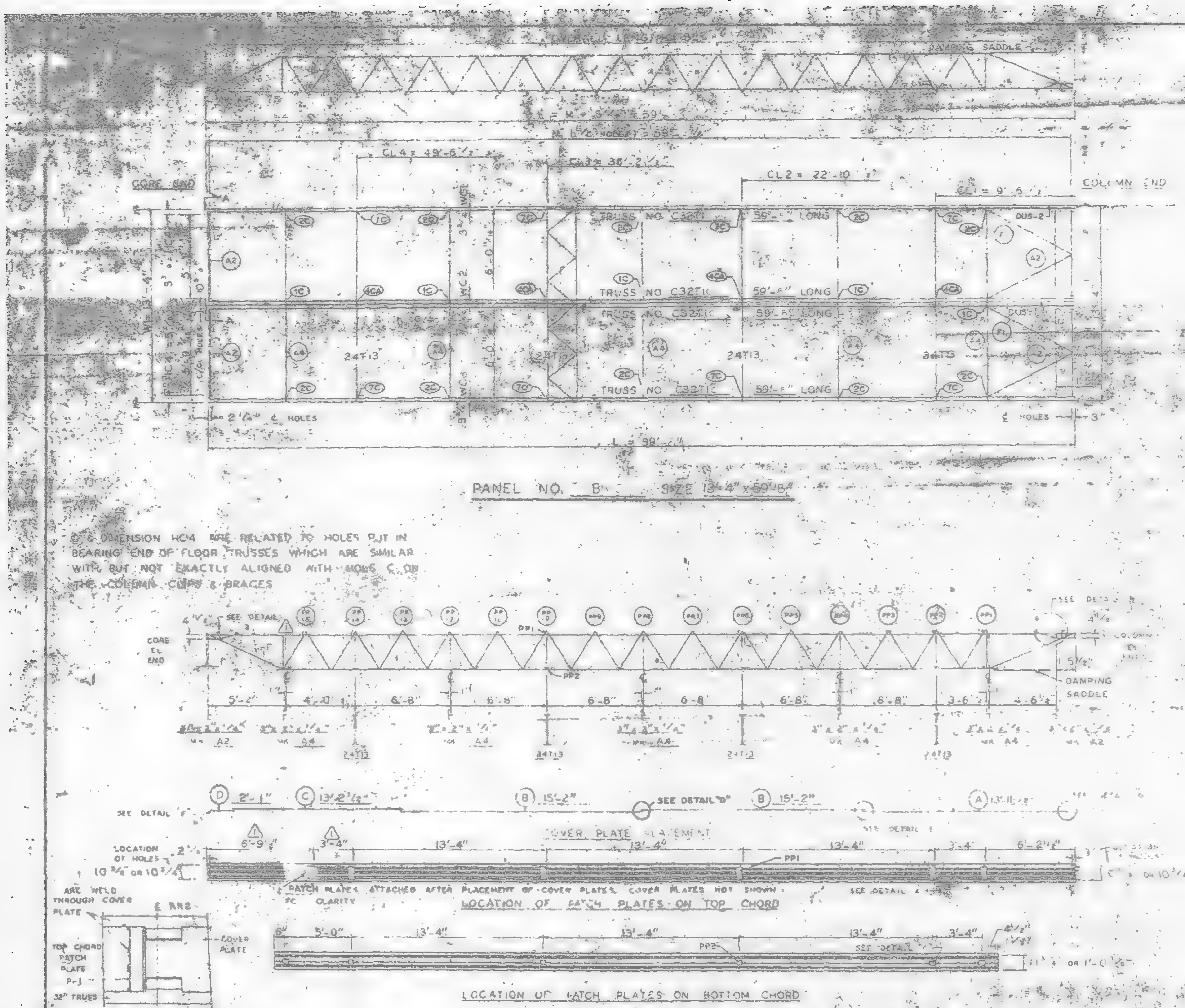
NO.	DATE	REVISION
1	[illegible]	[illegible]

⚠ REF DRWG
7-AB4
7-AB4-15.6.18
7-AB [illegible]
[illegible]
7-AB3 [illegible]
7-AB [illegible]
7-AB3 B

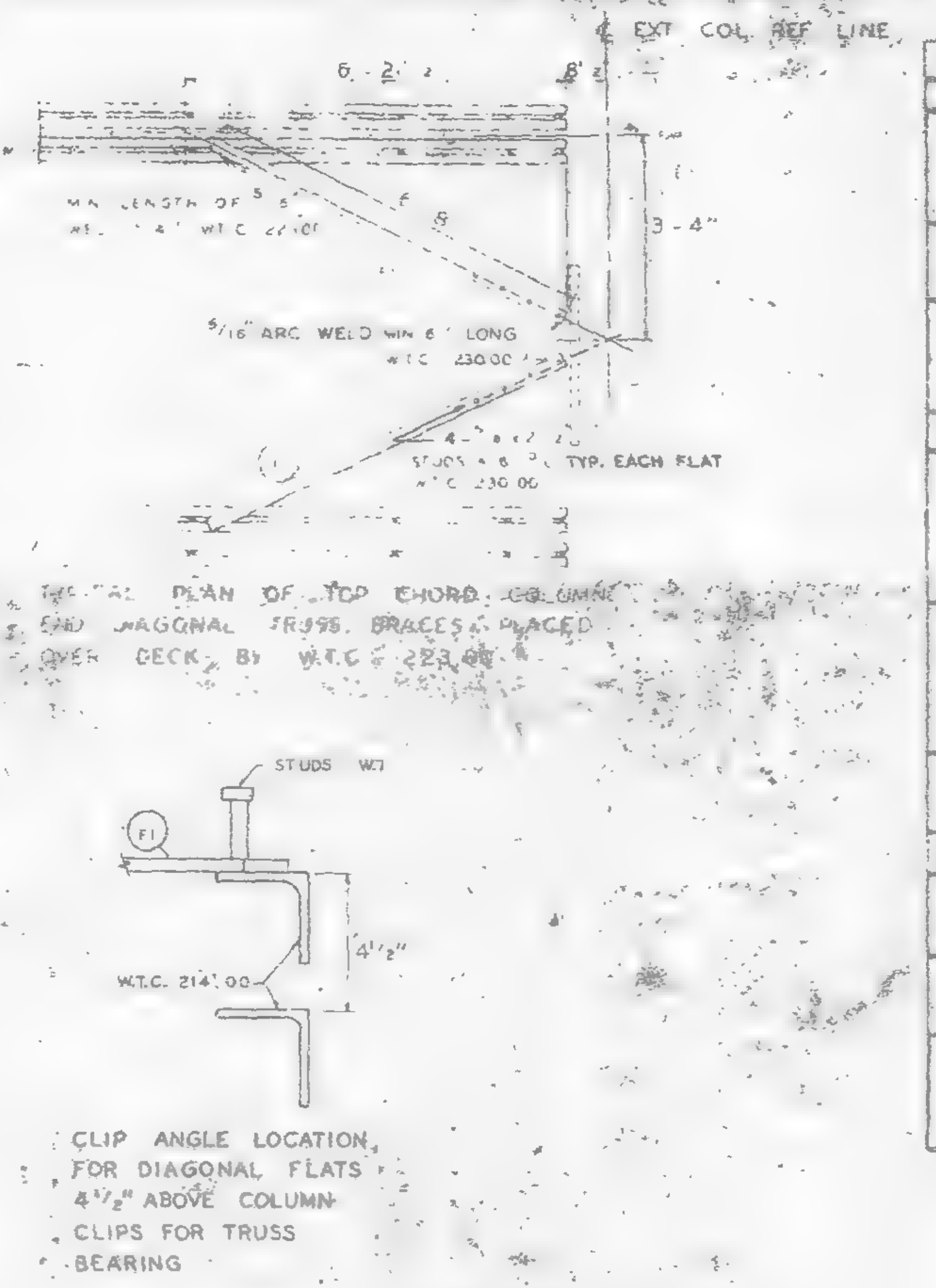
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A, FLOORS [illegible]
PANEL B1 [illegible] 13'-4" x 5 [illegible]
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3 5
APPROVED FOR FABRICATION BY [illegible] PONYA
DATE [illegible]
DRAWN BY [illegible]
DATE [illegible] 1968
APPROVED FOR FABRICATION BY [illegible] FABRICATOR
DATE
CHECKED BY
DATE [illegible] 1968
IN CHARGE OF [illegible]
FABRICATION CLASS [illegible]
DETAILED BY [illegible]


DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 3/8"
CL1 = 9'-5 1/2"
TRUSS NO. C32T1C 59'-2" LONG
TRUSS NO. C32T1C 59'-2" LONG
TRUSS NO. C32T1C 59'-2" LONG
24T13
24T13
24T13
24T13
DUS-2
DUS-1
2'-1/4" ℄ HOLES
℄ HOLES
PANEL NO. B SIZE 13'-4" x 59'-8"
CORE ℄ END
SEE DETAIL
PP1
PP2
5'-2"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
DAMPING SADDLE
A2
A4
A4
A4
A2
24T13
SEE DETAIL "D"
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
A 13'-11 1/2"
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/4 OR 10 3/4
6'-9"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
PP2
SEE DETAIL
LOCATION OF PATCH PLATES ON BOTTOM CHORD

℄ & DIMENSION HC4 ARE RELATED TO HOLES PJT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLES C ON THE COLUMN CLIPS & BRACES


℄ EXT COL REF LINE
6'-2"
3'-4"
5/16 ARC WELD MIN 6" LONG W.T.C. 230.00
TYP. EACH FLAT
STUDS W.T.
F1
4 1/2"
W.T.C. 214.00

TYPICAL PLAN OF TOP CHORD, COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

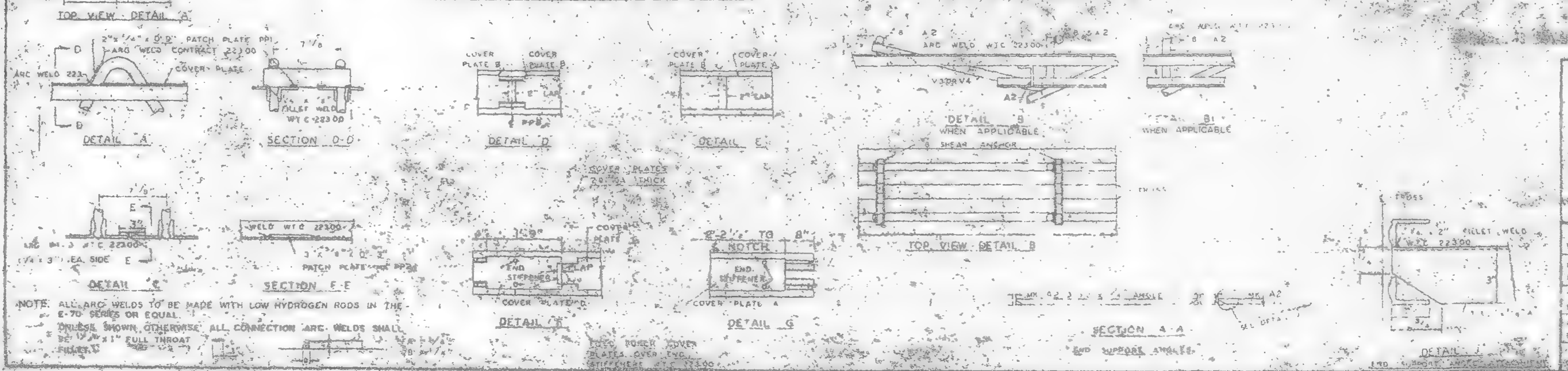
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1C	4	C32T1C - 58'-8"	ST 201
BRIDGING TRUSSES	T13	4	24T13 13'-3"	ST 212
3"x2"x1/4" ANGLE	A2	4	3 x 2" x 1/4 x 5'-11 9/16	ST 403
	A4	5	3 x 2" x 1/4 x 13'-3	ST 403
DIAGONAL FLATS	F	4	1 1/2" x 5/8 x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 402
COVER PLATES	A	2	9" x 0.135" x 13'-9 1/2	ST 303
	B	4	9" x 0.135" x 15'-2"	ST 303
	C	2	9" x 0.135" x 13'-2 1/2	ST 303
	D	2	5" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-6	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 5/16" x 3'-4 7/8"	ST 298
	DUS 2	1	3 1/2" x 3 1/2" x 3/16" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-0"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R

△1 REF DRWG
7-AB4-3 10-15-68
7-AB4-15 16 7-22-68
7-AB4-42 10-15-68
6A-124 1-6-69
7-AB3-2 1-3-68
7-AB1-42 7-22-68
7-BB2-8 7-22-68


ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
TOP VIEW DETAIL A
2" x 1/4" x 0'-9" PATCH PLATE PP1 ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223
DETAIL A
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
PP2
DETAIL D
COVER PLATE B
COVER PLATE A
DETAIL E
A2
ARC WELD W.T.C. 223.00
DETAIL B WHEN APPLICABLE SHEAR ANCHOR
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES 20 GA THICK
ARC WELD W.T.C. 223.00
1/4 x 3" EA. SIDE E
DETAIL C
WELD W.T.C. 223.00
3" x 3/8" x 0'-3" PATCH PLATE PP2
SECTION E-E
END STIFFENER
COVER PLATE D
DETAIL F
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
SECTION A-A
END SUPPORT ANGLE
FILLET WELD W.T.C. 223.00
DETAIL J
END SUPPORT ANGLE

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/8" x 1" FULL THROAT FILLETS

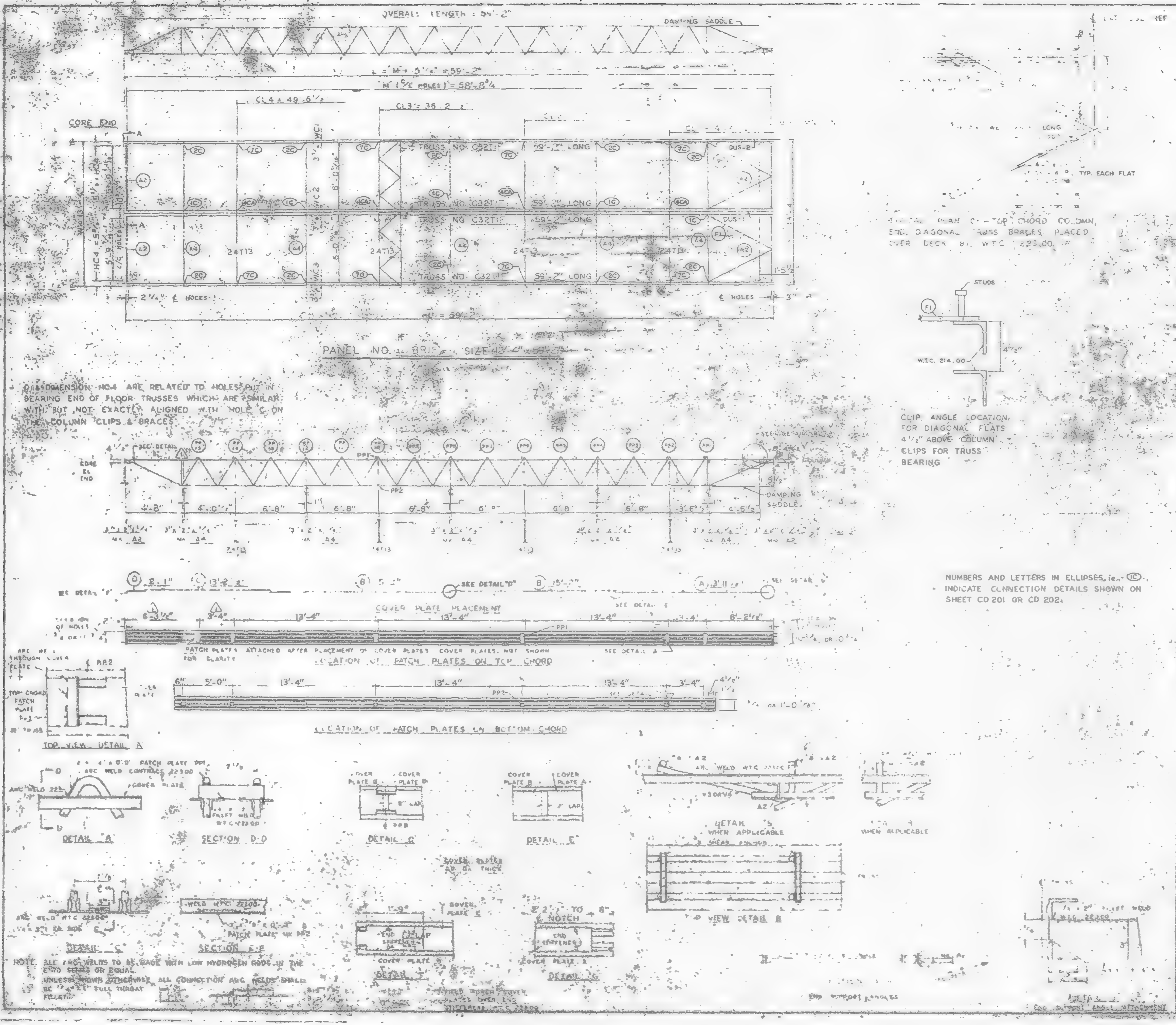
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 49-58, 60-66, 68-74, 79-91

PANEL B ... 4" x 59'-8"

BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON ILLINOIS
DESIGN DRAWING 7-AB3-8
APPROVED FOR FABRICATION BY DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION BY FOR FABRICATION DATE
CHECKED BY
DATE


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
M (C/C HOLES) = 58'-8 3/4
CL4 = 49'-6 1/2
CL3 = 36'-2
CORE END
TRUSS NO. C32T1F 59'-2" LONG
24T13
DUS-2
PANEL NO. BRIEF SIZE 13'-4" x 59'-2"
TYP. EACH FLAT
STUDS
W.T.C. 214.00
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
VIEW DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
WELD WTC 22100
END SUPPORT ANGLES

DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLETS

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	4	C32T1F - 59'-2"	ST 201
BRIDGING TRUSSES	T3	4	24T13 13'-3"	ST 2 3
3 1/2x2 1/2x1/4 ANGLE	A2	[illegible]	3 1/2 x 2 1/2 x 1/4 x 5'-11 9/16	ST 403
	A4	5	3 1/2 x 2 1/2 x 1/4 x 5'-3	ST 403
DIAGONAL FLATS	F	4	1 1/2 x [illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4 x 0'-9"	ST 400
	PP2	12	3" x 5/8 x 0'-3"	ST 400
COVER PLATES	A	2	9 x .0135 x 13'-11 1/2	ST 303
	B	4	9" x .0135 x 15'-2"	ST 303
	C	2	9 x .0135" x 13'-2 1/2	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	4 1/2" x 5" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-8"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

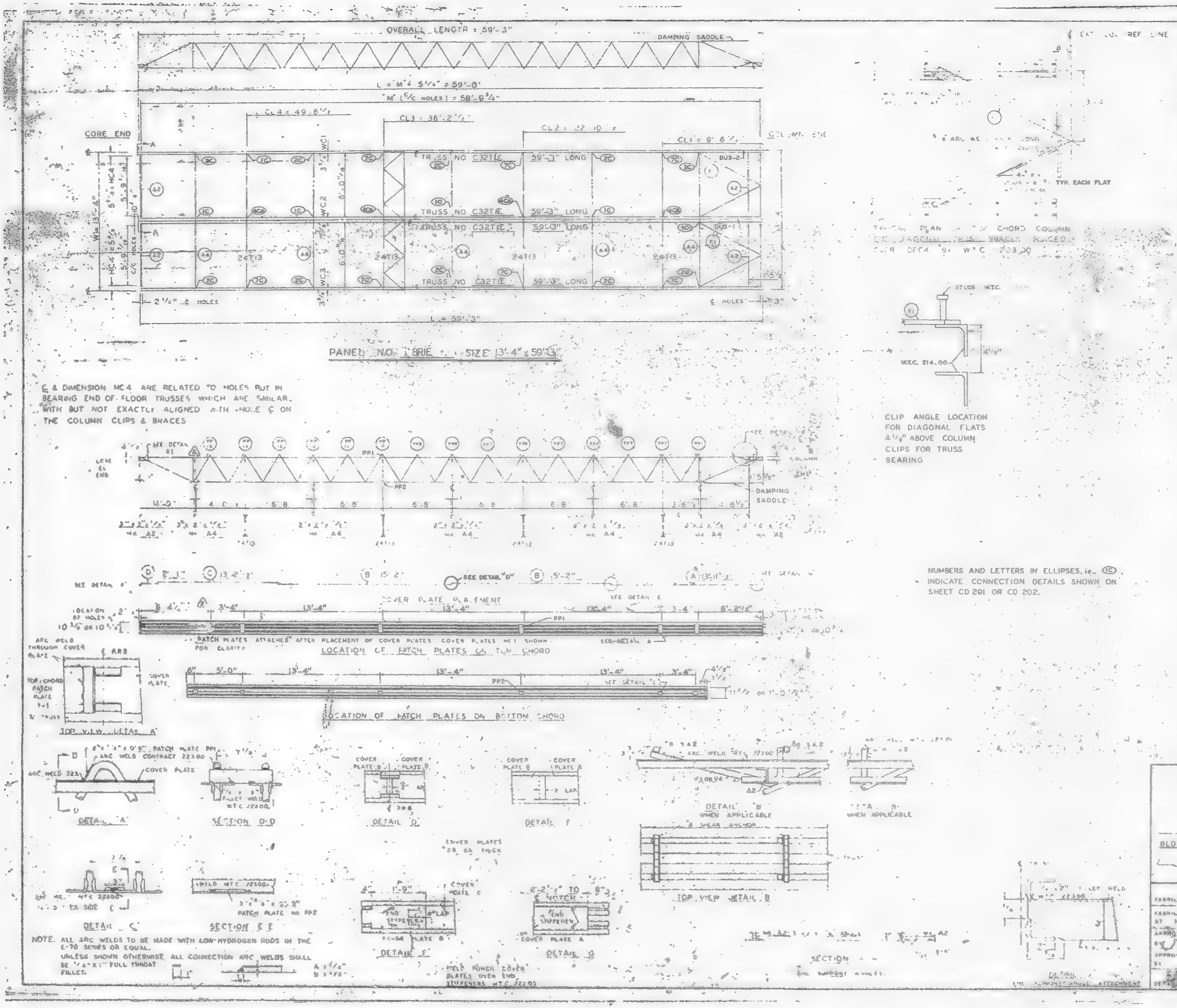
NO.	DATE	REVISION
1	26-5-69	AS NOTED

REF DRWG
- 7 [illegible]04 3 — 10 3 68
- [illegible] 94 15 16 — 7 22 68
- 7 804 42 — 10 3 68
- △1 58 24 — 1 6 69
- 7 AB3-2 — 1-3-68
- 7 AB -2 — 7 22 68
- 7 AB2 8 — 7 22 68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48, 70-71 [illegible] 47-48 [illegible]
13'-4" x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) △

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 A33-[illegible]
APPROVED FOR FABRICATION BY [illegible] P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY DATE
DETAILED [illegible]
FABRICATION [illegible]


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
L = M" + 5¼" = 59'-0"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
CORE END
COLUMN END
TRUSS NO C32T1E 59'-3" LONG
24T13
DUS-2
DUS-1
PANEL NO. ...SIZE 13'-4" x 59'-3"
SEE DETAIL
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL F
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL E
DETAIL G
COVER PLATES 20 GA THICK
STUDS W.T.C.
W.T.C. 214.00
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW-HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL

MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	1E	4	C32T1E - 59'-3"	ST201C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5'-1 9/16"	ST403
	A4	5	3"x2"x¼"x13'-3"	ST403
DIAGONAL FLATS	F1	4	½"x5/8"x6'-8	ST402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11½"	ST303
	B	4	9"x.0135"x15'-2	ST303
	C	2	9"x.035"x13'-2½"	ST303
	D	2	9"x.035"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-6	ST400
DAMPING SADDLE	DUS-1	1	3½"x3½"x3/8"x3'-6 7/8"	ST298
	DUS 2	1	3½"x3½"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3½"x3/8"x8½"	ST400
	P2	4	4½"x.30"x0'-6"	ST400
	P3	4	4½"x.30"x1'-0"	ST400

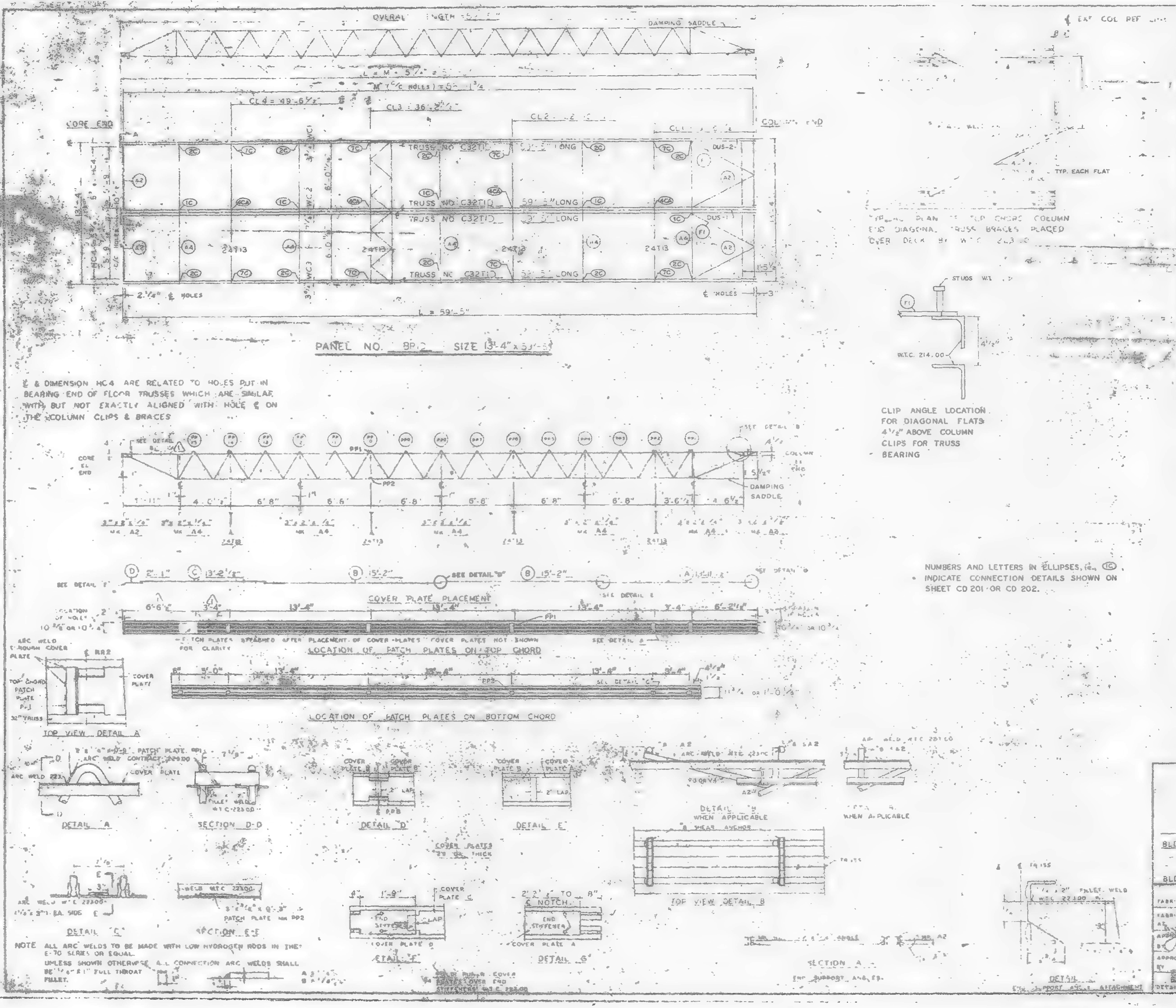
NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	R.A.P.
1	7-15-68	GENERAL	TMC

2 REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 18 7-22-68
7-AB4-42 10-15-68
SA-24 1-6-68
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-6 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (SOUTH)
PANEL 83IF x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB2-6 PLATE
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.B. PAUL DATE FEB. 24, 1968
IN CHARGE OF PROD. ENG.
FABRICATION CONT NO. W.T.C. 221
SHEET NO. FP 83IF


OVERALL LENGTH
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-6½"
CL3 = 36'-2½"
TRUSS NO C32T1D
59'-5" LONG
24T13
WC1
WC2
WC3
DUS-1
DUS-2
2¼" ℄ HOLES
℄ HOLES
L = 59'-5"
PANEL NO. BP-2 SIZE 13'-4" x 59'-5"
COLUMN CLIPS
DAMPING SADDLE
CORE EL END
PP1
PP2
6'-8"
6'-6"
4'-0"
3'-6"
1'-11"
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B
WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
COVER PLATES .085 THICK
DETAIL F
DETAIL G
SECTION A
DETAIL
TYPICAL PLAN AT TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 22300
TYP. EACH FLAT
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	1 [illegible]	4	C32T1 - 59 [illegible]	ST 20 [illegible]
BRIDGING TRUSSES	T1	4	24T13 13' 4	ST 3
3 x 2" x ¼" ANGLE	A2	4	3 x 2 x ¼ x 5 [illegible]	ST 4 [illegible]
	A4	5	3 x 2" x ¼ x 13 3	[illegible]
DIAGONAL FLATS	F1	4	1" x ⅝ x 6-6	[illegible]
PATCH PLATES	PP1	12	2" x ¼" x 0-9"	[illegible]
	PP2	12	3 x ⅜ x 0-3	[illegible]
COVER PLATES	A	2	9" x .085" x 13'-11 ⅞	ST 203
	B	4	9" x .085" x 15-2	ST 203
	C	2	9" x .085" x 13-2	ST 203
	D	2	9" x .085" x 2'-1"	ST 203
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
⁵⁄₈ SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅝" x 3'-6 ⅞	ST 298
	DUS-2	1	3½" x 3½" x ⅝" x 2'-2 ⅞"	ST 298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅝" x 0'-8"	ST 400
	P2	4	4½" x .30" x 0'-0"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION
1	6-5-69	AS NOTED

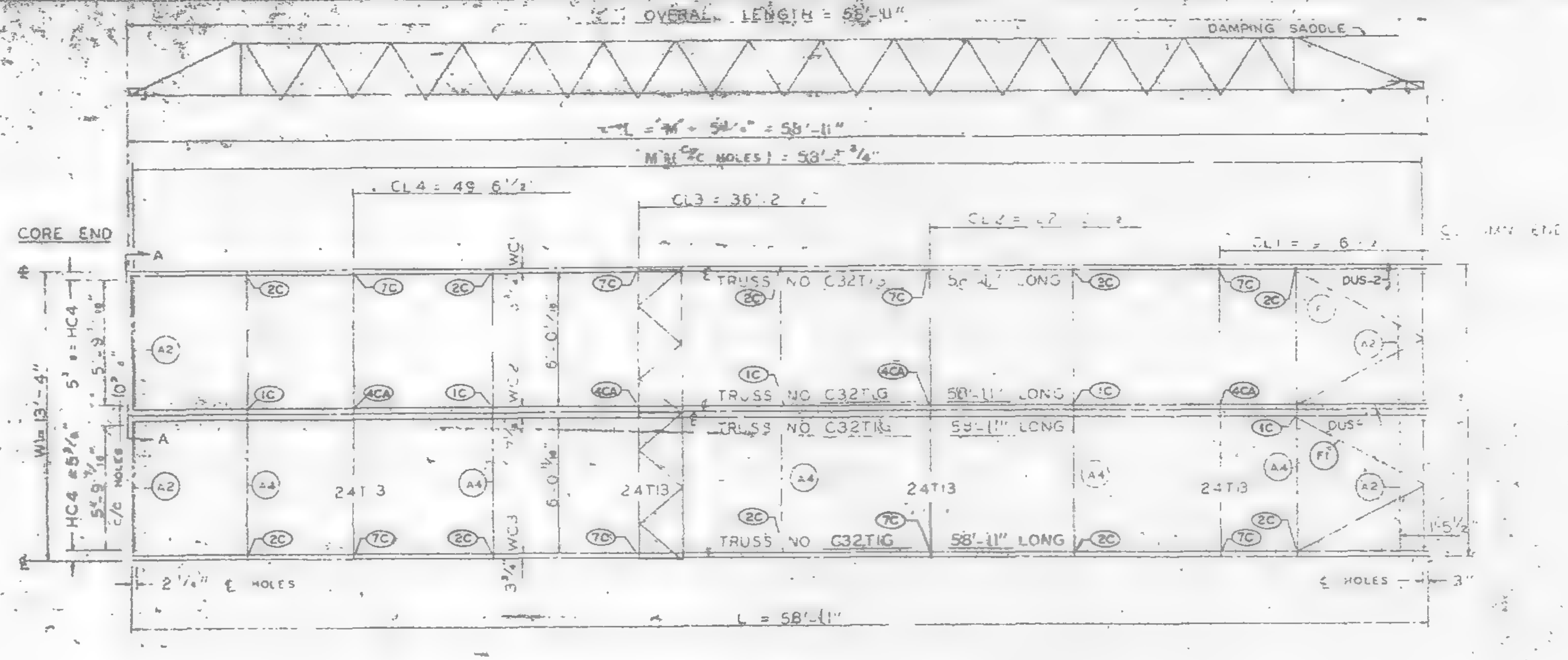
⚠1 REF DRWG
7 AB4 3.3 10 15 68
7 AB4 5, 6 & 30 7-2-69
7 AB4 42 10 15 68
SA 24 1 6 69
7 B3 2 [illegible]
7 [illegible]
7 [illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

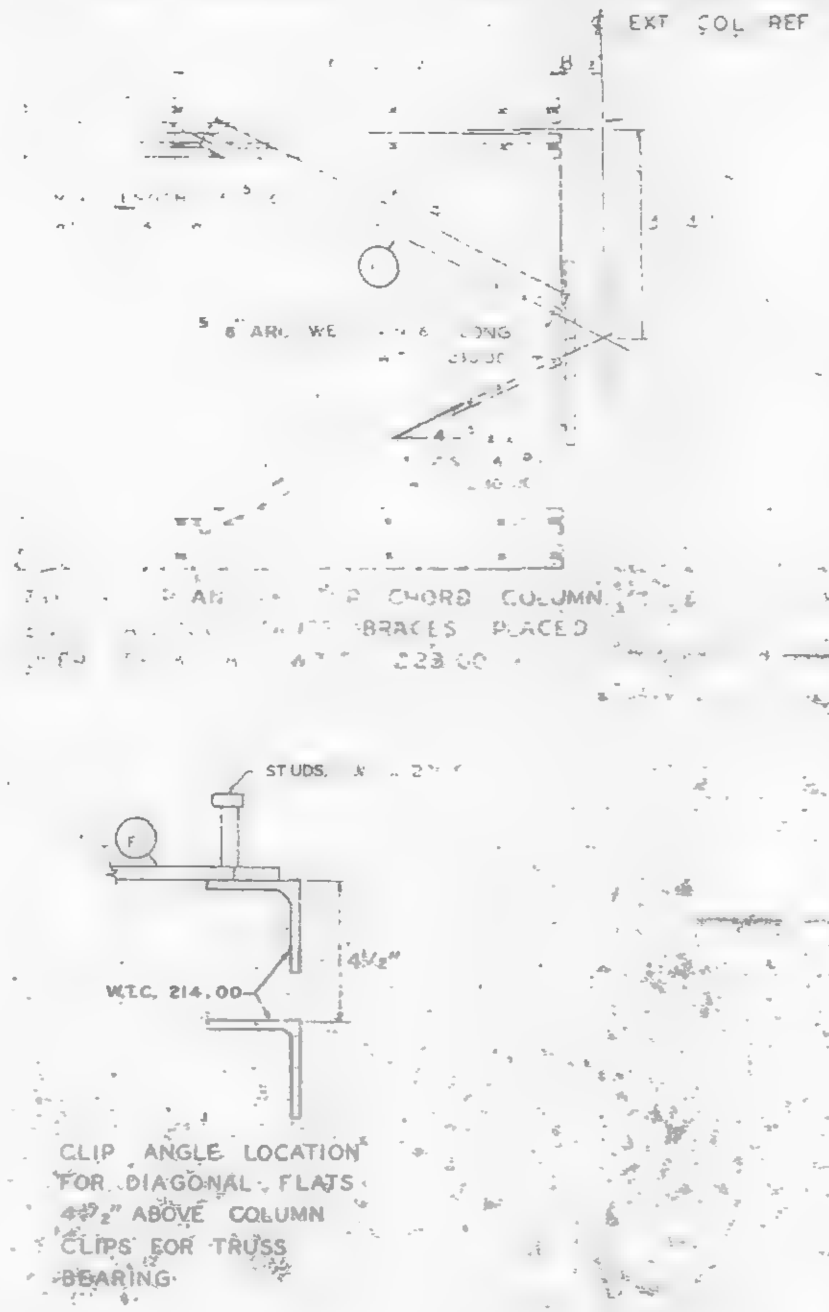
BLDG A FLOORS [illegible]
PANEL BP 4" x 59 [illegible]
BLDG. B FLOORS 81-82 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3 6	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.N.Y.A.	DATE [illegible]	DRAWN BY DATE	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY DATE	IN CHARGE
DETAILED BY A. C. WEBER		FABRICATION SHEET	


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
M.B. (C/C HOLES) = 53'-4 3/4"
CL4 = 49' 6 1/2"
CL3 = 36' 2"
CORE END
TRUSS NO C32T1G 58'-11" LONG
24T13
HC4
W = 13'-4"
2 1/4" ℄ HOLES
℄ HOLES 3"
L = 58'-11"
DUS-2
DUS-1

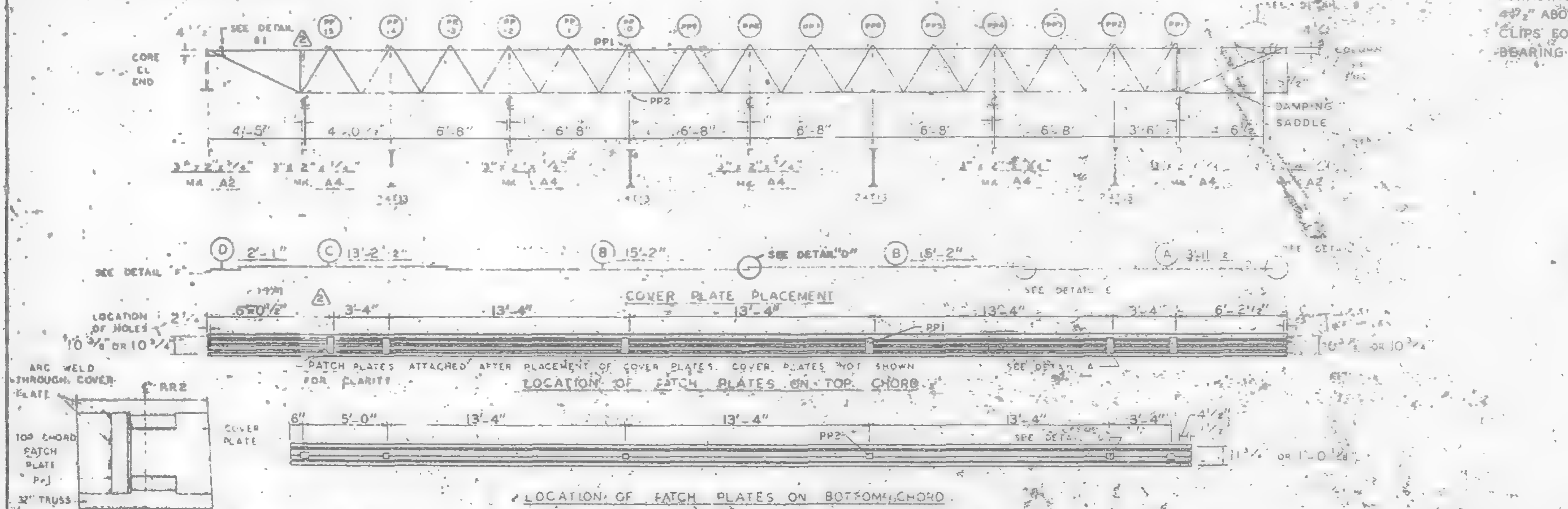
PANEL NO. 5BRIG SIZE 13'-4" x 58'-11"


EXT COL REF LINE
STUDS
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST201G
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST212
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

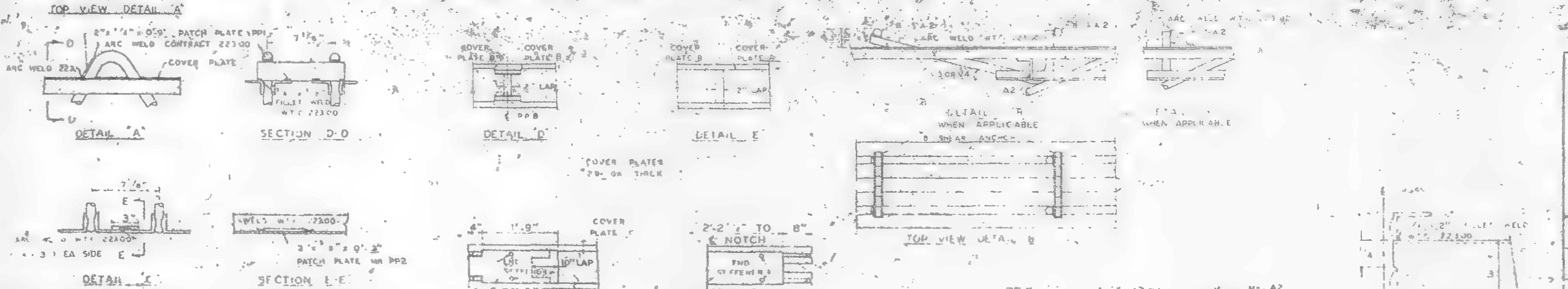

SEE DETAIL B1
CORE CL END
PP1
PP2
DAMPING SADDLE
4'-5"
6'-8"
3'-6"
24T13
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A
COVER PLATE PLACEMENT
LOCATION OF HOLES 10 3/8" OR 10 3/4"
3'-4"
13'-4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP-1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"

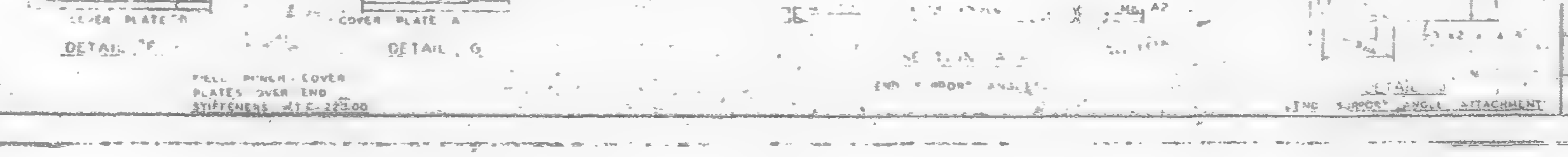
NUMBERS AND LETTERS IN ELLIPSES, ie. → ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY
△2	6-5-69	AS NOTED	RJP
△1	7-15-68	GENERAL	TH

△2 REF DRWG

7-AB4-3	10-15-69
7-AB4-15 & 16	7-22-69
7-AB4-42	10-15-69
SA-24	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68


2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
ARC WELD 22A
COVER PLATE
DETAIL "A"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
LAP
DETAIL "D"
COVER PLATES 20 GA THICK
DETAIL "E"
WHEN APPLICABLE
TOP VIEW DETAIL B
ARC WELD W.T.C. 22300
3 EA SIDE
DETAIL "C"
WELD W.T.C. 22300
3"x3/8"x0'-3" PATCH PLATE MK PP2
SECTION E-E


1'-9"
10" LAP
END STIFFENER
COVER PLATE A
DETAIL "F"
2'-2" TO 8"
& NOTCH
END STIFFENERS
DETAIL G
FIELD WELD COVER PLATES OVER END STIFFENERS W.T.C. 22300
END SUPPORT ANGLE ATTACHMENT

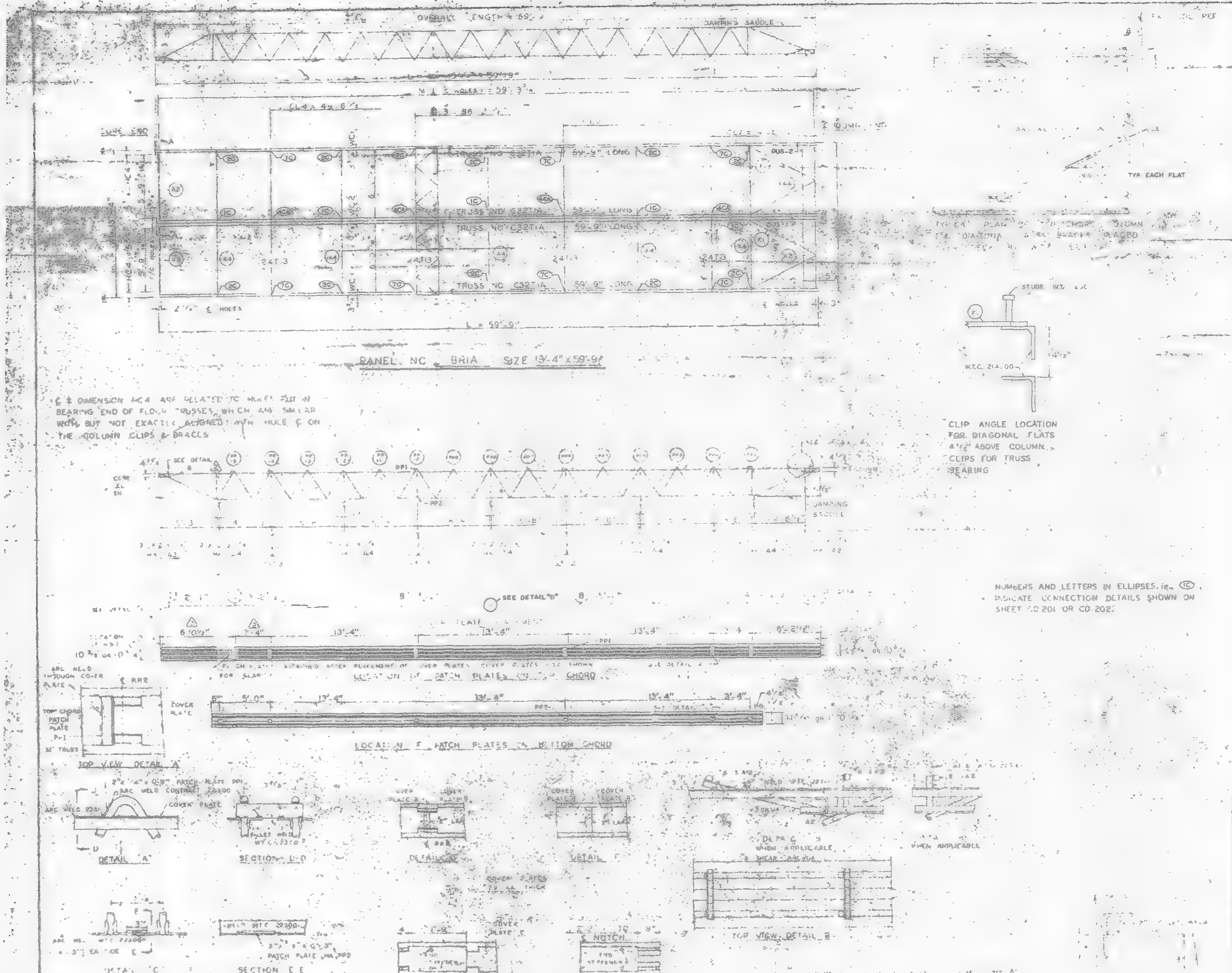
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

A = 1/4"
B = 1 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11, 39 (NORTH) 39-40 (EAST)
PANEL BRIG 13'-4" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) △2

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-6	PLATE
APPROVED FOR FABRICATION BY	DATE	DRAWN BY DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.E. PAUL DATE FEB. 24, 1968	IN CHARGE OF
		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FE-BRIG


OVERALL LENGTH 59'-9"
DAMPING SADDLE
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
24T3
L = 59'-9"
TYP EACH FLAT
STUDS
W.T.C. 214.00
PP1
PP2
DAMPING SADDLE
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATE
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "B"
WHEN APPLICABLE
TOP VIEW DETAIL "B"
NOTCH
END STIFFENERS
COVER PLATE E
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2

PANEL NO. BRIA SIZE 13'-4" x 59'-9"

℄ DIMENSION HC4 ARE RELATED TO HOLES ... IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH, BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE "¼" A I" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				FOR CP200
MATERIAL	MK	PCS	SIZE	
TRUSSES	[illegible]	4	C32T1A 59'-9"	[illegible]
... TRUSSES	[illegible]	4	24T3 13'-4"	[illegible]
... ANGLE	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9" x 0135" x 3'-11"	ST 300
	B	4	9" x 0135" x 15'-2	ST 303
	C	2	9" x 0135" x 13'-2½	ST 303
	D	2	9" x 0135" x 2'-1	ST 303
ANGLE CLIPS	C1	16	2" x 1' 2" x ¼" x 0'-8"	ST 400
SHEAR ANCHOR	SA21	8	#8 REBAR x 2' 9"	ST 400
DAMPING SADDLE	DUS 1	[illegible]	[illegible]	ST 290
	DUS 2	[illegible]	[illegible]	ST 238
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x [illegible]	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	4	4½" x .38 x [illegible]	ST 400

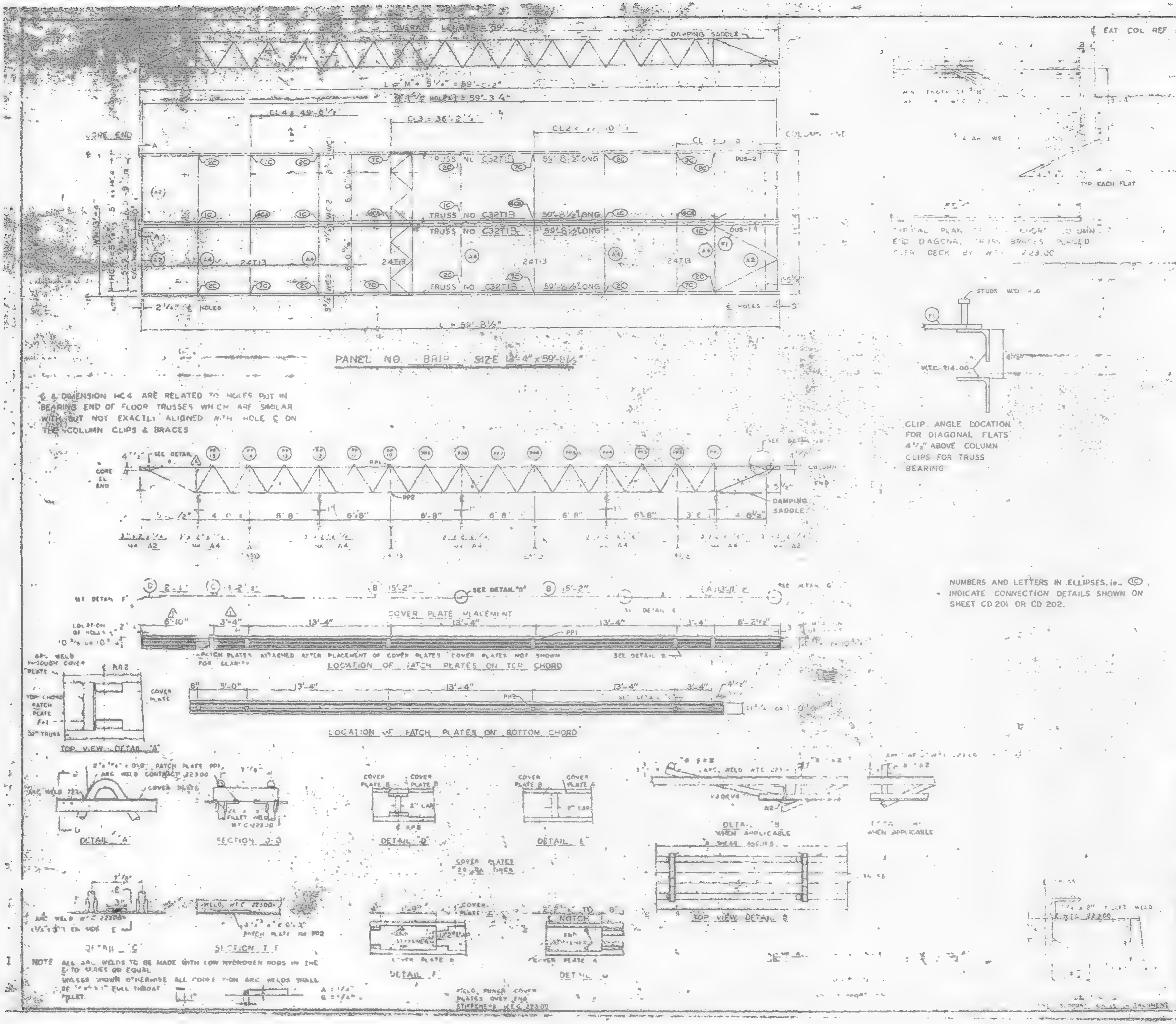
NO	DATE	REVISION
2	6-5-69	AS NOTED
1	7-15-68	GENERAL

REF DRWGS
[illegible] 10-15-68
7-384 15 & 16 7-22-68
7-AB4-42 10-15-68
[illegible] 1-6-69
[illegible] [illegible]
[illegible] 7-24-68
[illegible] 7-24-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12 ... 59
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 48-58, 60-69 (WEST)

FABRICATED BY LACLEDE STEEL COMPANY
MADISON, ILLINOIS
DATE 4/21/69
DRAWN BY
DATE FEB. 24, 1968
CHECKED BY
DATE FEB. 29, 1968


OVERALL LENGTH = 59'-
DAMPING SADDLE
L OF M + 5¼" = 59'-
M (C/C HOLES) = 59'-3¼"
GL4 = 49'-6½"
CL3 = 36'-2½"
CL2 =
CL
CORE END
COLUMN LINE
TRUSS NO C32T13 59'-8½" LONG
TRUSS NO C32T13 59'-8½" LONG
TRUSS NO C32T13 59'-8½" LONG
TRUSS NO C32T13 59'-8½" LONG
24T13
DUS-2
DUS-1
2¼" ℄ HOLES
℄ HOLES
L = 59'-8½"
PANEL NO. BRIP SIZE 13'-4" x 59'-8½"
SEE DETAIL
CORE ℄ END
COLUMN
DAMPING SADDLE
SEE DETAIL "D"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL B
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL E
DETAIL B WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION F-F
DETAIL F
DETAIL G
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
EXT COL REF LINE
TYP EACH FLAT
TYPICAL PLAN OF CORNER COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
STUDS WTC
W.T.C. 214.00
WHEN APPLICABLE

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	SPEC
FLOOR TRUSSES	T-6	4	C32T13 - 59'-8½"	ST [illegible]
BRIDGING TRUSSES	T13	4	24T13 19'-3"	ST 2[illegible]
[illegible] ANGLE	A2	[illegible]	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	[illegible]	12	[illegible]	
	PP	12	[illegible]	
COVER PLATES	A	2	9" x .0135" x 13'-11"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS 1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS 2		3½" x 3½" x ⅜" x 3'-0⅞"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 8⅛"	ST 400
	P2	4	4½" x .30" x 0'-8"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

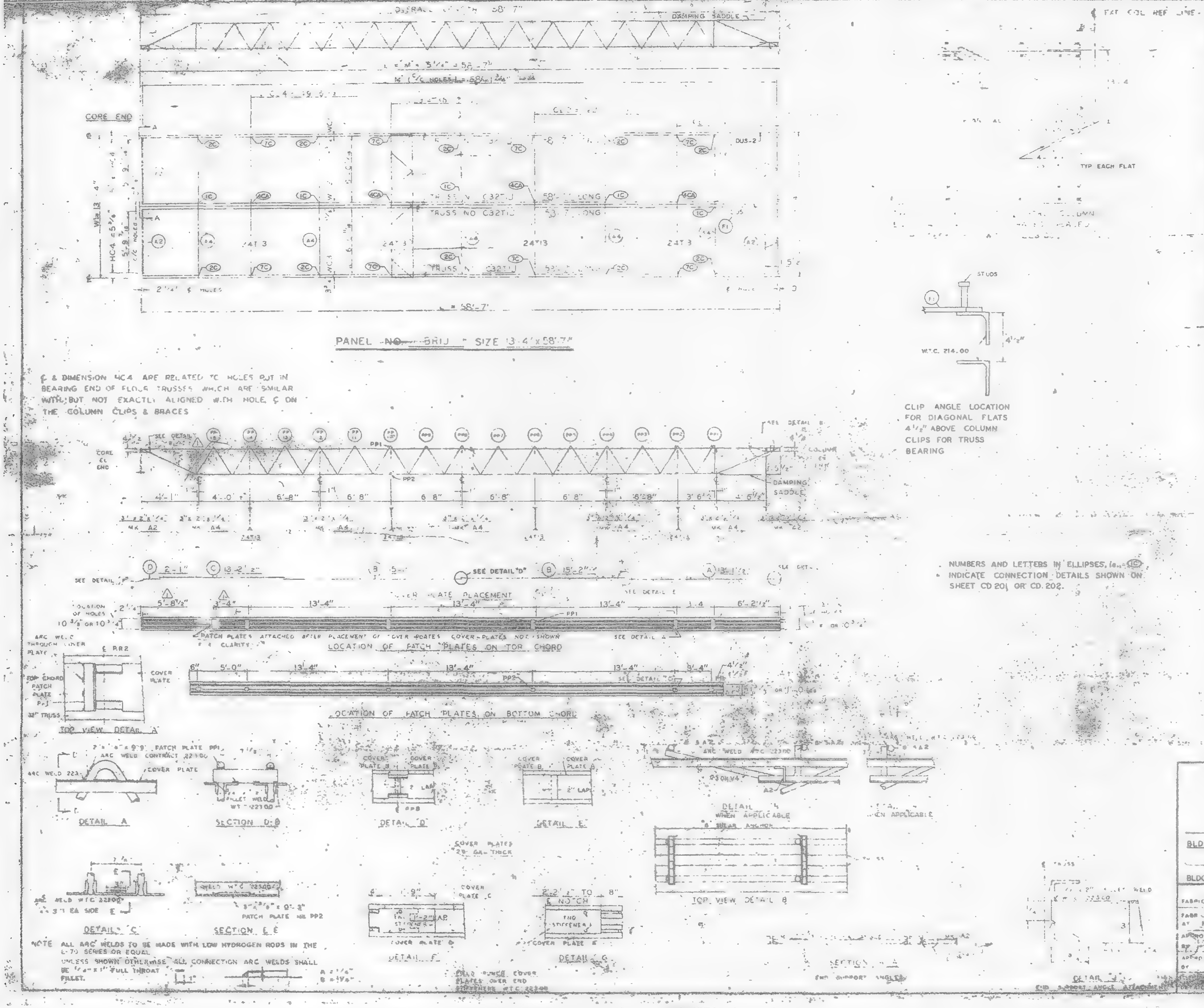
NO.	DATE	REVISION
1	6-5-69	AS NOTED

REF DRWG
7 AB4-2 [illegible]
7 AB4 15,16 & 39 [illegible]
7 AB3 42 [illegible]
[illegible]
7 AB3 2 [illegible]
7 AB1 2 [illegible]
7 AB2 8 [illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93 [illegible]
PANEL [illegible] x 59'
BLDG. B FLOORS 83-91, 93-108 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7 AB3 5[illegible]
APPROVED FOR FABRICATION DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION DATE
CHECKED BY
DATE
FABRICATOR CONT. NO 221
SHEET NO FD


DAMPING SADDLE
CORE END
2C
7C
1C
4CA
A4
A2
F1
24T3
DUS-2
TRUSS NO C32T1
TYP EACH FLAT
STUDS
W.T.C. 214.00
CORE END
PP1
PP2
DAMPING SADDLE
SEE DETAIL "D"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL H WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
PATCH PLATE MK PP2

PANEL NO. SIZE 13'-4"x58'-7"

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"×1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T1	4	C32T . 5	ST 201
BRIDGING TRUSSE	T13	4	24T 3 13' 3"	ST 2[illegible]
[illegible]	A2	[illegible]	[illegible]	[illegible]
	A4	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9 × .0135 × 3'-0	ST 303
	B	4	9 × 0135 × 15' 2	ST 303
	C	2	9 × .0135 × [illegible]	ST 303
	D	2	9 × .0135 × 2' 1	ST 303
ANGLE CLIPS	C1	16	2"×1½"×¼"×3'-6"	ST 400
#5 SHEAR ANCHOR	SA2	6	#8 REBAR × 0-[illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½×3½×⅜×3-6 6	ST 98
	DUS-2	[illegible]	3½×3½×⅜×3 6 [illegible]	[illegible] 98
CONNECTION BAR	CB1	4	1 ¢ × 1'-3"	[illegible]
CONNECTION PLATES	P1	8	3½" × ⅜" × 6"½"	ST 400
	P2	4	4½" × .30" × 0'-0"	ST 400
	P3	4	4½" × .30" × 1'-0"	ST 400

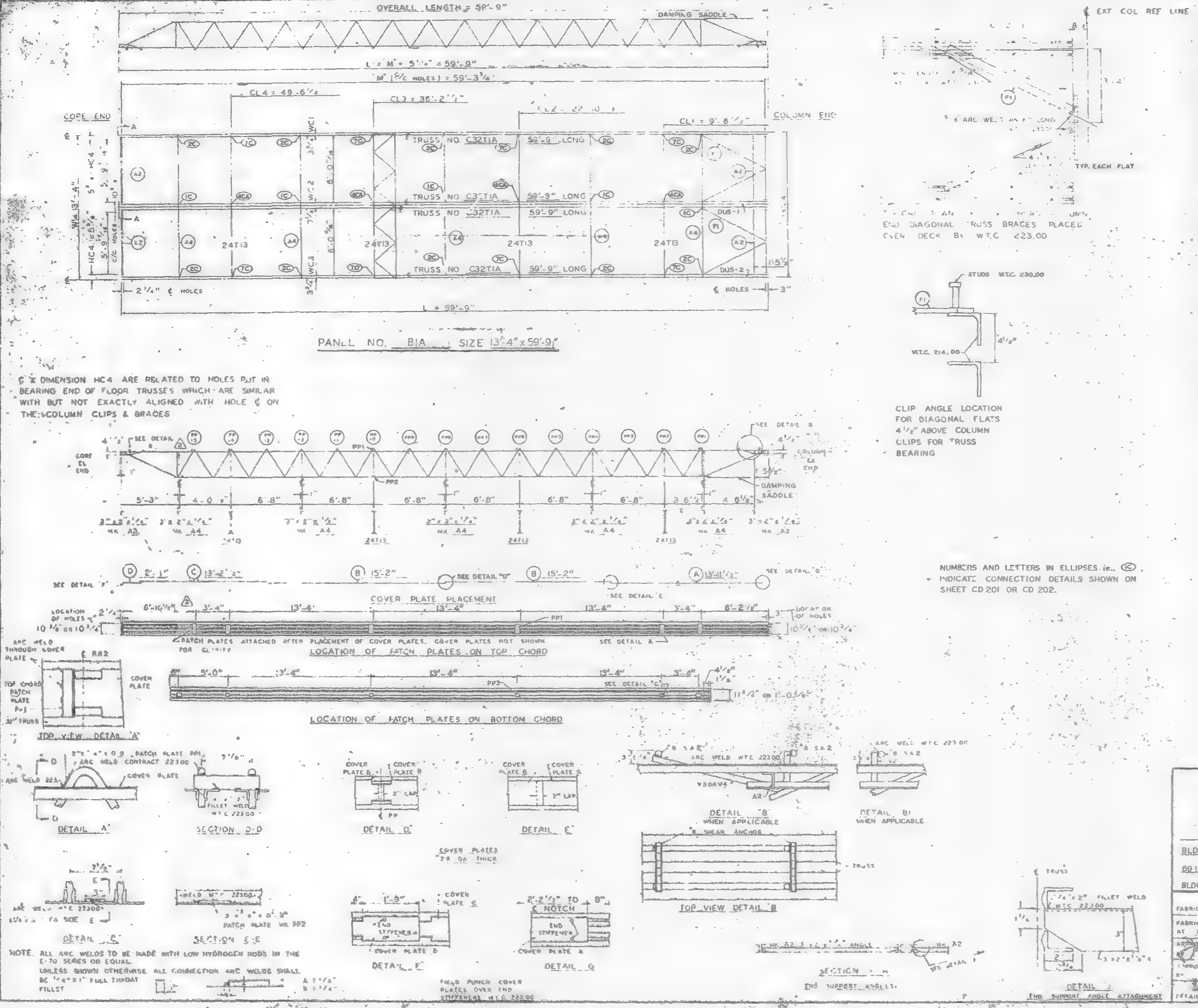
NO.	DATE	REVISION
⚠1	6-5-69	AS NOTED

REF DRWG
7-AB4-3 10-15-68
7-AB4-15,16 [illegible] 22 68
7-AB4-42 [illegible]-15-68
SA 124 1-6-69
⚠1 7-AB2-2 1-23-69
7-AB1-42 1-22-69
7-AB2-8 1-27-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 4[illegible] (N)
PANEL [illegible]
BLDG. B FLOORS 40 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] 83 [illegible]
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY DATE
DETAILED BY A. S. WEBER
FABRICATION CONT. NO. W.T.C. [illegible]


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = M + 5¼" = 59'-9"
M (C/C HOLES) = 59'-3¾"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10"
CL1 = 9'-6½"
CORE END
COLUMN END
TRUSS NO. C32T1A 59'-9" LONG
24T13
DUS-1
DUS-2
PANEL NO. B1A SIZE 13'-4" x 59'-9"
SEE DETAIL B
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
5'-3"
4'-0"
6'-8"
3'-6½"
4'-6½"
MK A2
MK A4
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
13'-2½"
15'-2"
13'-11½"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
PP1
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
COVER PLATE
32" TRUSS
TOP VIEW DETAIL 'A'
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
FILLET WELD W.T.C 223.00
DETAIL 'A'
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL 'D'
DETAIL 'E'
COVER PLATES 28 GA. THICK
ARC WELD W.T.C 223.00
DETAIL 'B'
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL 'B'
ARC WELD W.T.C 22300
FA SIDE
DETAIL 'C'
WELD W.T.C 22300
PATCH PLATE MK PP2
SECTION E-E
END STIFFENER
COVER PLATE D
DETAIL F
2'-2½" TO 8"
℄ NOTCH
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION
END SUPPORT ANGLES
FILLET WELD W.T.C 223.00
DETAIL
END SUPPORT ANGLE ATTACHMENT
℄ EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
A = ¼"
B = ¼"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A - 59' [illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
[illegible] ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	
	PP2	12	[illegible]	
COVER PLATES	A	2	[illegible]	
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x 5½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	[illegible]
1	7-15-68	GENERAL	[illegible]

2 REF DRWG

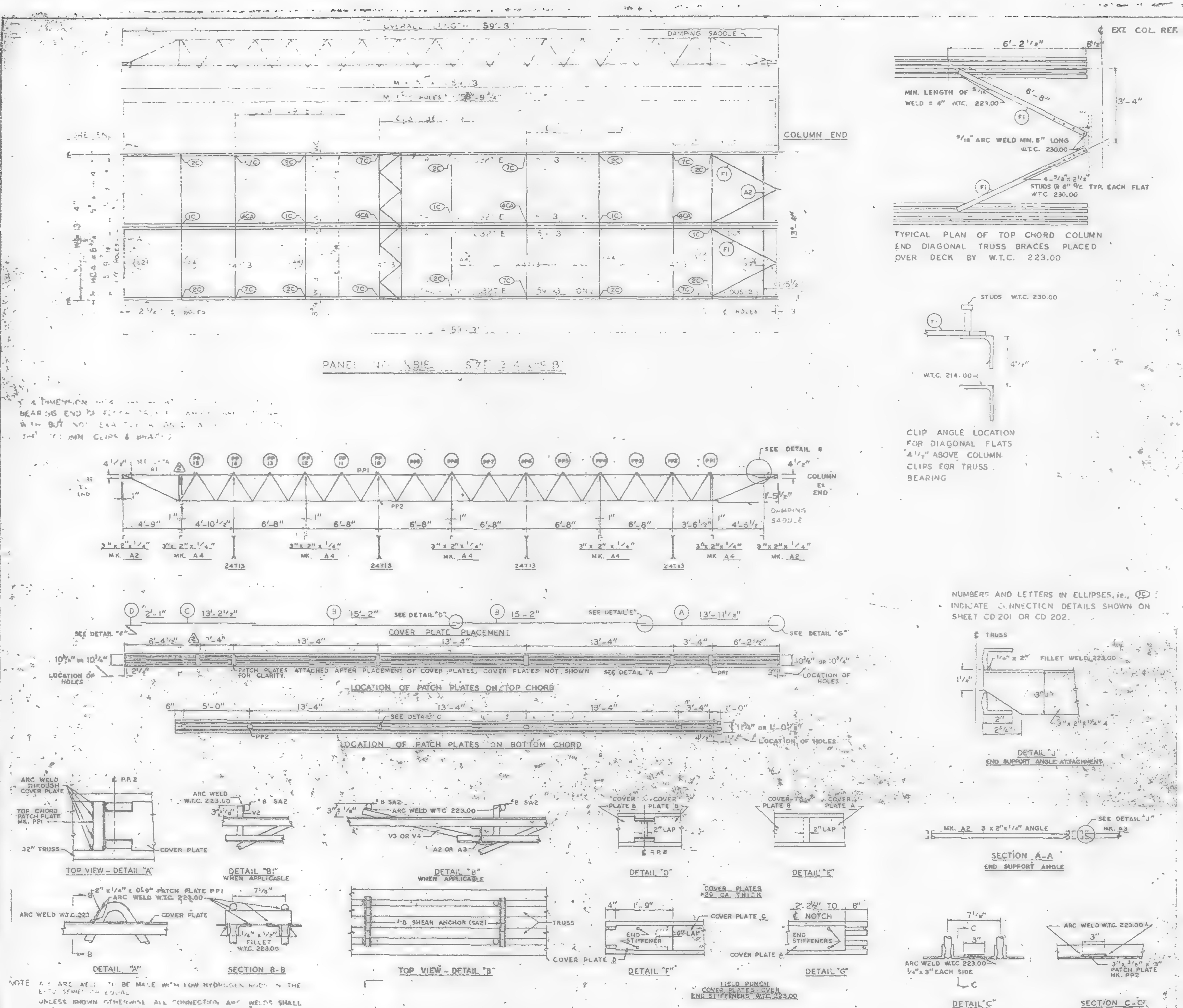
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA 124	1-6-69
7-AB3-2	[illegible]-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68
69 (NORTH) PANEL B1A 13'-4" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) [illegible] 2

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3 5	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR [illegible]	DATE	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE FEB 24, 1968	IN CHARGE OF [illegible]
DETAILED BY [illegible]		FABRICATION CONT NO W.T.C 221	SHEET NO FP 91A


OVERALL LENGTH 59'-3"
DAMPING SADDLE
COLUMN END
PANEL NO. B1E 13'-4" x 59'-3"
2C
1C
7C
4CA
F1
A2
DUS-2
SEE DETAIL B
COLUMN END
DAMPING SADDLE
PP1
PP2
4'-9"
4'-10½"
6'-8"
3'-6½"
4'-6½"
3" x 2" x ¼" MK. A2
3" x 2" x ¼" MK. A4
24T13
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
2'-1"
13'-2½"
15'-2"
15-2"
13'-11½"
6'-4½"
13'-4"
6'-2½"
10¾" or 10¼"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES, COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
EXT. COL. REF. LINE
6'-2½"
8½"
MIN. LENGTH OF 5/16 WELD = 4" W.T.C. 223.00
6'-8"
3'-4"
5/16" ARC WELD MIN. 6" LONG W.T.C. 230.00
4-⅝" x 2½" STUDS @ 6" O/C TYP. EACH FLAT W.T.C. 230.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES, i.e., 1C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
TRUSS
1¼" x 2" FILLET WELD 223.00
3" x 2" x ¼" x 4
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK. A2 3 x 2" x ¼" ANGLE
SEE DETAIL "J"
MK. A3
SECTION A-A
END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
#8 SA2
V2
DETAIL "B1"
WHEN APPLICABLE
ARC WELD WTC 223.00
V3 OR V4
A2 OR A3
DETAIL "B"
WHEN APPLICABLE
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
2" x ¼" x 0'-9" PATCH PLATE PP1
ARC WELD W.T.C. 223.00
ARC WELD W.T.C. 223
DETAIL "A"
7⅛"
¼" x ½" FILLET W.T.C. 223.00
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TOP VIEW - DETAIL "B"
COVER PLATES #29 GA. THICK
1'-9"
COVER PLATE C
END STIFFENER
6" LAP
COVER PLATE D
DETAIL "F"
2'-2½" TO 8"
NOTCH
END STIFFENERS
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
ARC WELD W.T.C. 223.00 ¼" x 3" EACH SIDE
DETAIL "C"
3" x ⅜" x 3" PATCH PLATE MK. PP2
SECTION C-C

[illegible] DIMENSION [illegible] BEARING END [illegible] WITH BUT NOT EXA[illegible] [illegible] COLUMN CLIPS & BRA[illegible]

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] x [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS	SIZE	
TRUSSES	T.E.	4	C32TIE - 59'-3"	ST201E
	T13	4	24T13 - 13'-3"	ST213
	A2	4	3 x 2" x ¼ x 5'-6"	ST403
	A4	15	3 x 2" x ¼ x [illegible] 3"	ST403
[illegible]	[illegible]	4	[illegible]	ST402
PATCH PLATES	PP1	12	2 x ¼ x [illegible] 9	ST 400
	PP2	12	3 x ⅜ x [illegible] 3"	ST 400
COVER PLATES	B	4	9" x .035 x 15'-2	ST 303
	C	2	9" x .035" x 13'-2½	ST303
	D	2	9 x .035 x 2'-1	ST 303
[illegible] CLIPS	C	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING [illegible]	DUS-1	1	3½" x 3½" x ⅜" x 3' 6⅞	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3' 6⅞	ST298
CONNECTION BAR	CB1	4	1" [illegible] x 1'-3"	ST 400
CONNECTION PLATES	CP1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

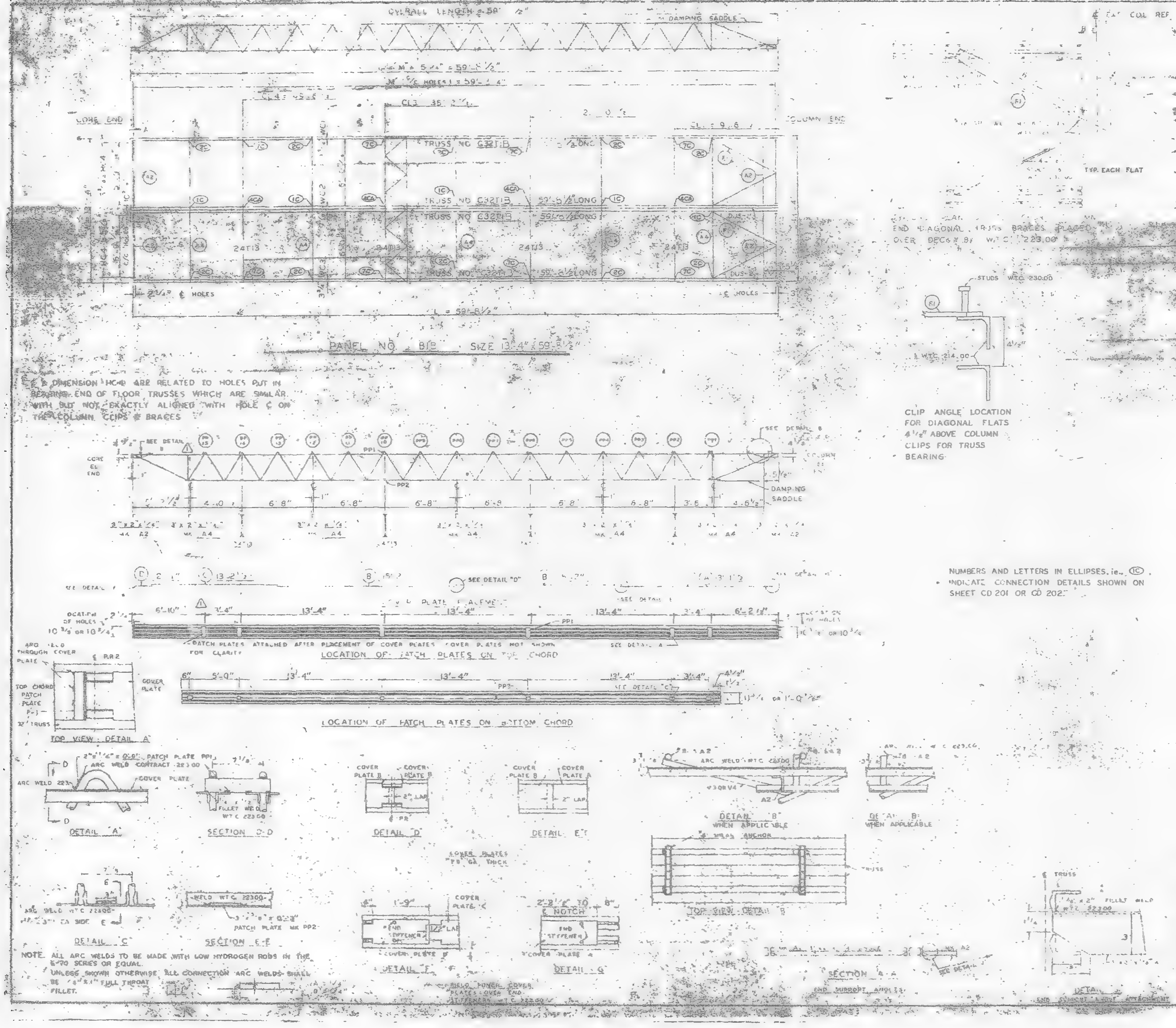
NO.	DATE	REVISION	BY
2	6-4-69	AS NOTED	G.D.C.
1	7-15-68	GENERAL	T.M.C.

2 REF. DRWG.
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-42 10-15-68
SA 24 1-5-69
7-AB3-2 [illegible]
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (NORTH & SOUTH)
PANEL B1E 13'-4" x 59'-3"

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James W[illegible] DATE 1/2/70
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DESIGN DRAWING NO. 7-AB1 5 PLATE
DRAWN BY L.A.
DATE FEB. 24, 1968
CHECKED BY J.A.PAUL
DATE FEB. 24, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. 221
SHEET NO. FP B1E


OVERALL LENGTH = 58' 1/2"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T1B
59'-5 1/2" LONG
24T13
DUS-2
2 1/2" ℄ HOLES
℄ HOLES
L = 59'-8 1/2"
PANEL NO. B1B SIZE 13'-4" X 59'-8 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
SEE DETAIL
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
WELD W.T.C. 22300
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
END STIFFENER
COVER PLATES
NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

℄ & DIMENSION HC-D ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	NO.	SIZE	
FLOOR TRUSSES	[illegible]	4	[illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
ANGLE	A2	[illegible]	[illegible]	[illegible]
	A4	5	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	[illegible]
PATCH PLATES	[illegible]	[illegible]	[illegible]	[illegible]
	PP2	[illegible]	[illegible]	[illegible]
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 13'-[illegible]	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	6	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-1 7/8"	ST 296
	DUS-2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST 296
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

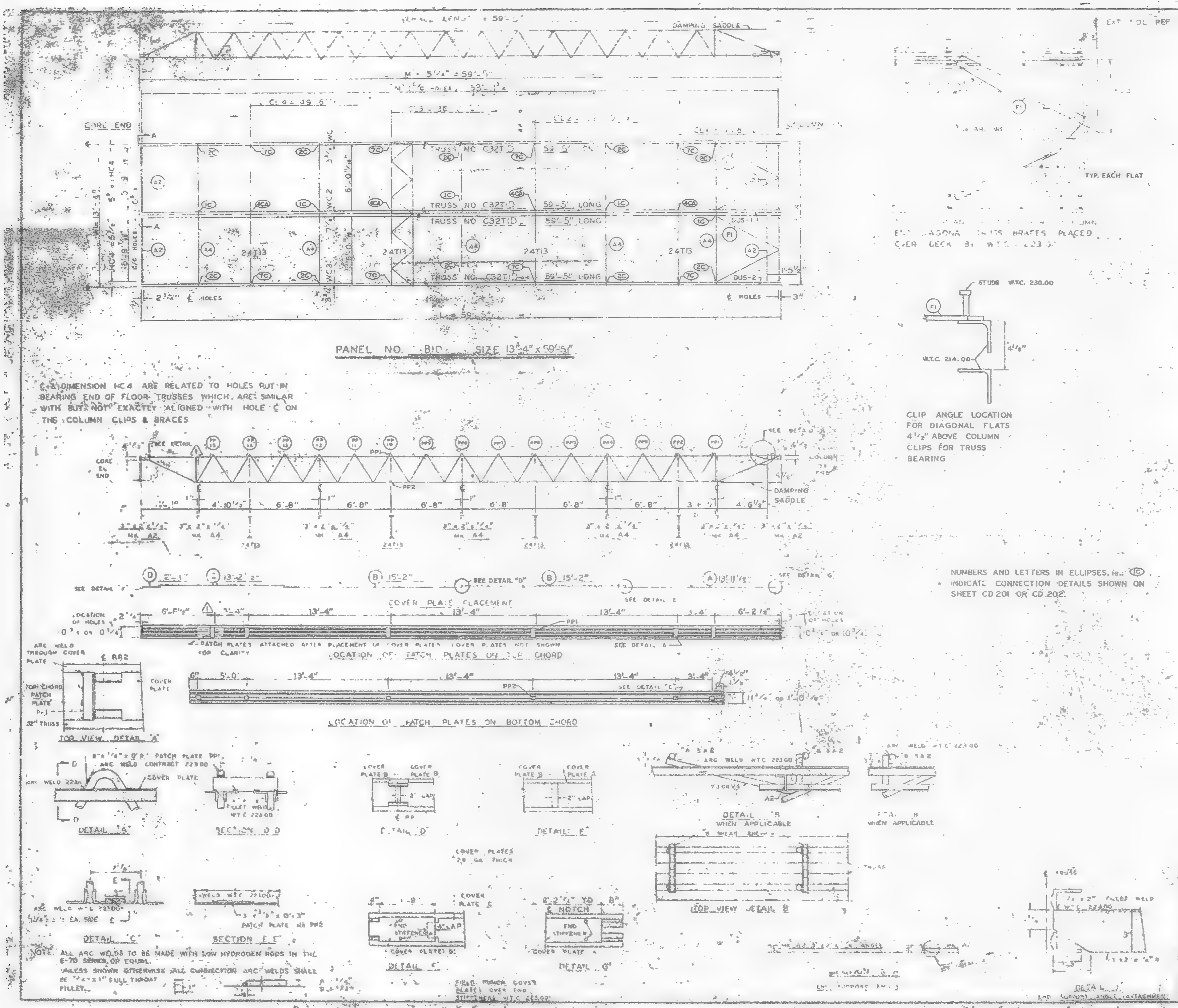
NO.	DATE	REVISION
1	6-4-68	AS NOTED

⚠ REF DWG
- [illegible] AB4 [illegible] — [illegible]-68
- 7-AB4 15 & 16 — [illegible]-68
- 7-AB4 42 — 10-15-68
- [illegible] — [illegible]
- 7-AB2 [illegible] — [illegible]
- 7-AB [illegible] — 7-2[illegible]-68
- 7-AB2 [illegible] — [illegible]-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 [illegible]
PANEL [illegible]
BLDG. B FLOORS 83-91, 93-106 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-5
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
APPROVAL FOR FABRICATION BY [illegible] DATE
DRAWN BY [illegible]
CHECKED BY [illegible]
FABRICATION CONT. NO. [illegible]


DAMPING SADDLE
M = 5¼" = 59'-5"
CORE END
COLUMN
TRUSS NO C32T1D 59'-5" LONG
TRUSS NO C32T1D 59'-5" LONG
TRUSS NO C32T1D 59'-5" LONG
TRUSS NO C32T1 59'-5" LONG
24T13
24T13
24T13
24T13
DUS-1
DUS-2
℄ HOLES
PANEL NO. B1D SIZE 13'-4" x 59'-5½"
SEE DETAIL
CORE ℄ END
PP2
PP1
DAMPING SADDLE
4'-10½"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
4'-6½"
MK A2
MK A4
MK A4
MK A4
MK A4
MK A4
SEE DETAIL "D"
SEE DETAIL "G"
SEE DETAIL "F"
SEE DETAIL E
COVER PLATE PLACEMENT
13'-4"
13'-4"
13'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
ARC WELD THROUGH COVER PLATE
℄ AB2
COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
TOP VIEW DETAIL "A"
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 22A
DETAIL "A"
FILLET WELD W.T.C 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA. THICK
ARC WELD W.T.C 22300
DETAIL "B"
WHEN APPLICABLE
SHEAR ANCHOR
DETAIL
WHEN APPLICABLE
TOP VIEW DETAIL B
ARC WELD W.T.C 22300
1½" ± 3" EA. SIDE
DETAIL "C"
WELD W.T.C 22300
3" x ⅜" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
FND STIFFENER
4" LAP
COVER PLATES B1
DETAIL "F"
2" NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIRE PUNCH COVER PLATES OVER END STIFFENERS W.T.C 22300
SECTION G-G
END SUPPORT ANGLE
DETAIL J
END SUPPORT ANGLE (ATTACHMENT)
EXT. COL. REF. LINE
F1
TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 22300
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"

℄ & DIMENSION NC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE "[illegible]" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T [illegible]	[illegible]
[illegible] TRUSSES	T3	4	24T[illegible]	[illegible]
[illegible] ANGLE	A2	4	[illegible]	ST 40[illegible]
	A4	5	[illegible]	ST 40[illegible]
DIAGONAL FLATS	F1	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	
COVER PLATES	A	2	9" x 0.135" x [illegible]	ST 303
	B	4	6" x 0135 x 15-2"	ST 303
	C	2	9" x .0135" x 13-2½"	ST 303
	D	2	9" x 0135" x 2'	ST 303
ANGLE CLIPS	C1	16	2" x 1'2" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	6	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3-6⅞"	ST 298
	DUS-2	1	3½" x 3½" x ⅜" x 3-6⅞"	ST 298
CONNECTION BAR	CB1	4	1"ø x 1'-3"	ST 4[illegible]
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION
1	6-4-69	AS NOTED

⚠ REF DRWG
7 AB4-3 [illegible]
7 AB4-3 & 16 [illegible]
7-AB4-42 [illegible]
SA-124 [illegible]
7 AB3-2 1-3-68
7 AB1-2 [illegible]
7-AB2-8 [illegible]

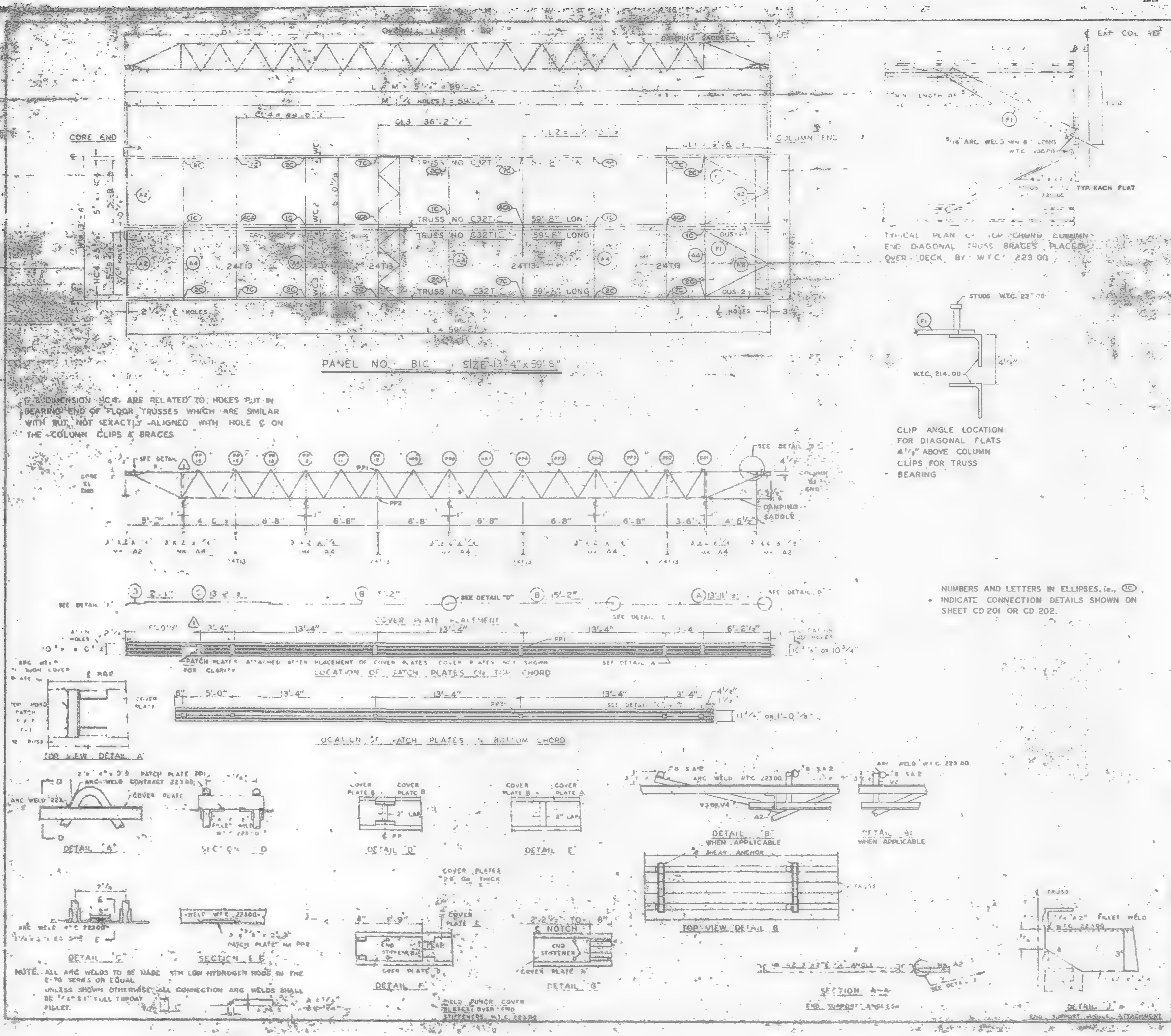
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A - FLOORS 81-82 N

PANEL B1 [illegible]

⚠ BLDG. B FLOORS 81-82 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 [illegible] PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR KARAGA [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY [illegible] DATE [illegible] 1968
IN CHARGE OF [illegible]
DETAILED [illegible] A.E. [illegible]
FABRICATION CONT. NO. WTC 221
SHEET NO. [illegible]


OVERALL LENGTH = 59'
DAMPING SADDLE
CORE END
COLUMN END
CL3 36'-2 1/2"
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
24T13
DUS-1
DUS-2
F1
£ HOLES
PANEL NO. B1C SIZE-13'-4" x 59'-8"
PP1
PP2
SEE DETAIL
DAMPING SADDLE
5'-7"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
4'-6 1/2"
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
13'-4"
13'-4"
13'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
4 1/2"
LOCATION OF PATCH PLATES IN BOTTOM CHORD
TOP VIEW DETAIL A
2'0 1/2" x 2'9 PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL A
SECTION D-D
W.T.C. 223.00
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
ARC WELD W.T.C. 223.00
V3 OR V4
A2
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
ARC WELD W.T.C. 22300
DETAIL C
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
COVER PLATES 28 GA. THICK
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE
DETAIL F
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x3"x 1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
1/4" x 2" FILLET WELD W.T.C. 223.00
DETAIL J
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
5/16" ARC WELD MIN 6" LONG W.T.C. 223.00
TYP. EACH FLAT
STUDS W.T.C. 223.00
W.T.C. 214.00
4 1/2"

£ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE £ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1	4	[illegible] 59	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
3"x3"x1/4" ANGLE	A2	4	[illegible]	[illegible]
	A4	5	[illegible]	ST 400
DIAGONAL FLATS	F1	4	[illegible]	
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	1	[illegible]	
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 13'-2	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-5"	ST 400
#6 SHEAR ANCHOR	SA2	8	#6 REBAR x 0'-6"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" £ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

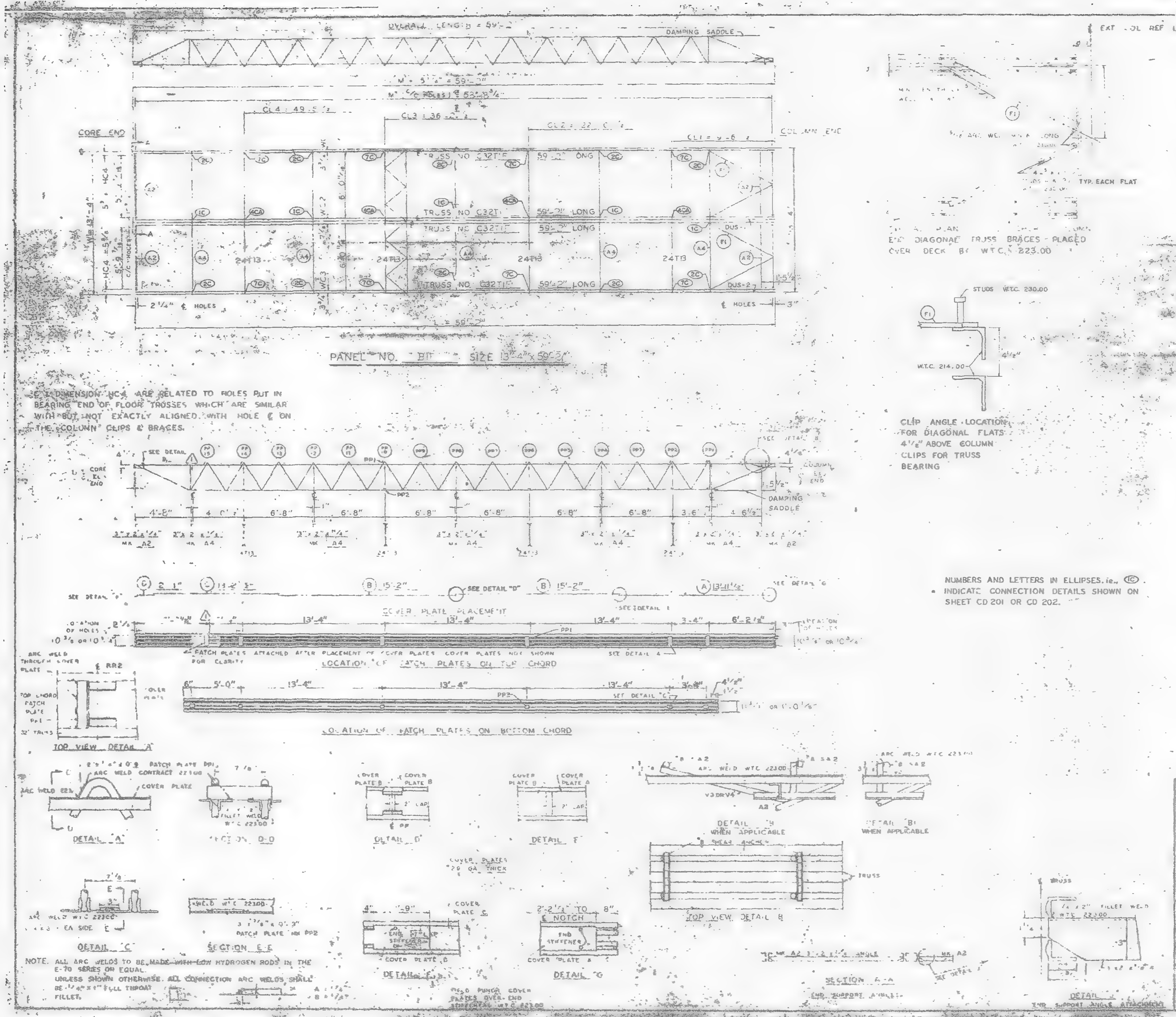
NO.	DATE	REVISION	
1	6-4-69	AS NOTED	

1 REF DRWG
7-AB4-2 6-[illegible]-68
7-AB4-15 & 16 [illegible]-68
AB4-42 10-15-68
SA-24 1-6-69
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-[illegible]-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-[illegible]
PANEL [illegible]
1 BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB[illegible]-5
APPROVED FOR FABRICATION FOR [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY [redacted] DATE
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF [illegible]
DETAILED BY A. G. WEBER
FABRICATION CODE NO. [illegible] 221
SHEET NO. [illegible] B1


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-5 1/2
CL3 = 36
CL2 = 22
CL1 = 9'-6
TRUSS NO. C32T1E 59'-2" LONG
TRUSS NO. C32T1 59'-2" LONG
TRUSS NO. C32T1 59'-2" LONG
TRUSS NO. C32T1E 59'-2" LONG
24T13
DUS-1
DUS-2
HC4
2 1/4" ℄ HOLES
℄ HOLES
PANEL NO. B1F SIZE 13'-4" x 59'-5"
SEE DETAIL B
DAMPING SADDLE
PP1
PP2
4'-8"
6'-8"
3'-6"
4'-6 1/2"
A2
A4
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL G
SEE DETAIL F
13'-4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL 4
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
13'-4"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
COVER PLATE
TOP VIEW DETAIL "A"
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
DETAIL "A"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "F"
ARC WELD W.T.C. 22300
SA2
A2
DETAIL "H" WHEN APPLICABLE
ARC WELD W.T.C. 22300
DETAIL "B" WHEN APPLICABLE
COVER PLATES 20 GA. THICK
SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL H
ARC WELD W.T.C. 22300
EA SIDE
DETAIL "C"
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
END STIFFENER
COVER PLATE B
DETAIL "E"
2'-2 1/4" TO 8"
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
MK A2 3 1/2 x 2 x 1/4 ANGLE
SECTION A-A
END SUPPORT ANGLE
1/4 x 2" FILLET WELD W.T.C. 22300
DETAIL
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
F1
TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓘⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE ~~MADE WITH LOW~~ HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	[illegible]	4	C32T1E - 59'-[illegible]	ST[illegible]
BRIDGING TRUSSES	T3	4	24T13 13'-3"	ST212
[illegible] ANGLE	A2	4	3"x2"x1/4"x[illegible]	ST303
	A4	5	3"x2"x1/4"x[illegible]	4[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	[illegible]
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-3 7/8"	ST298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 5/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

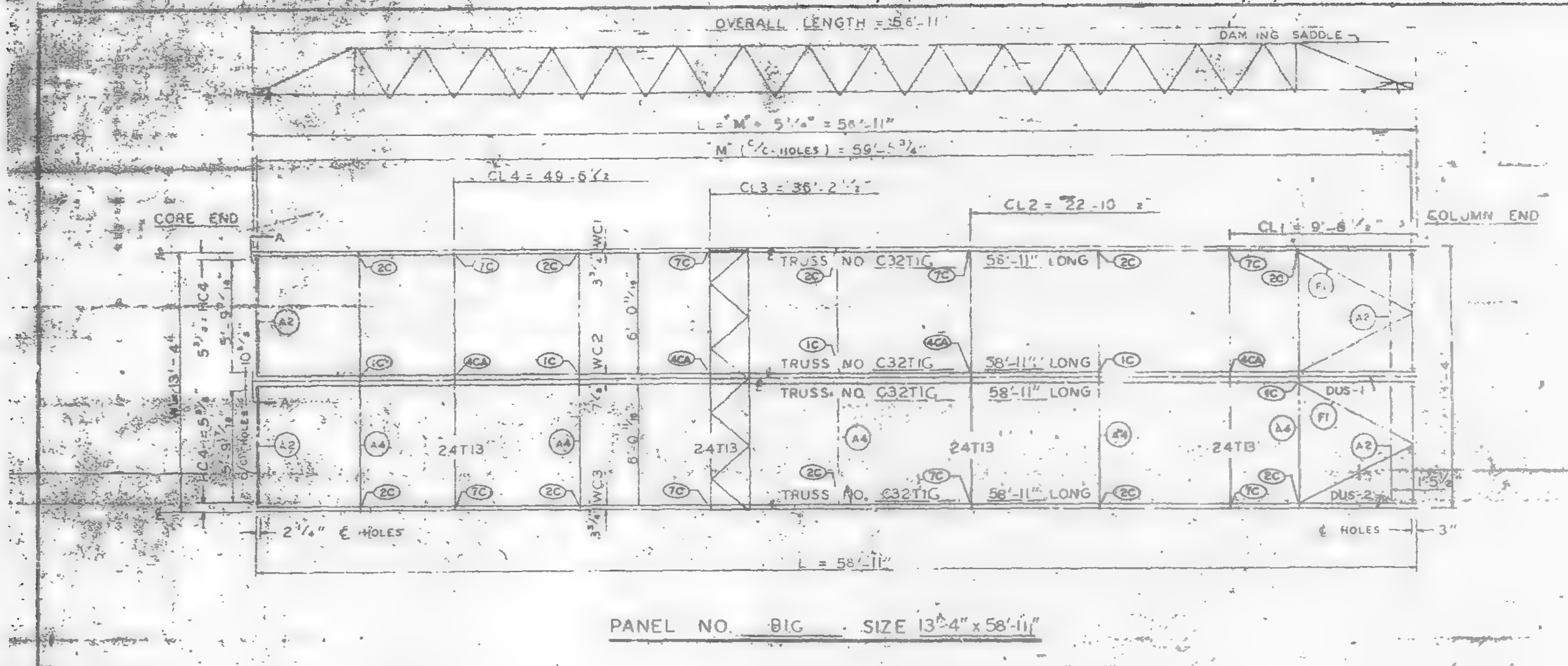
NO.	DATE	REVISION	BY
1	[illegible]	[illegible]	

REF DRWS
7-AB4-3
7-AB4-15 & 16
7-AB4-42
SA 124
7-AB3-2
7-AB1-2
7-AB2-8

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

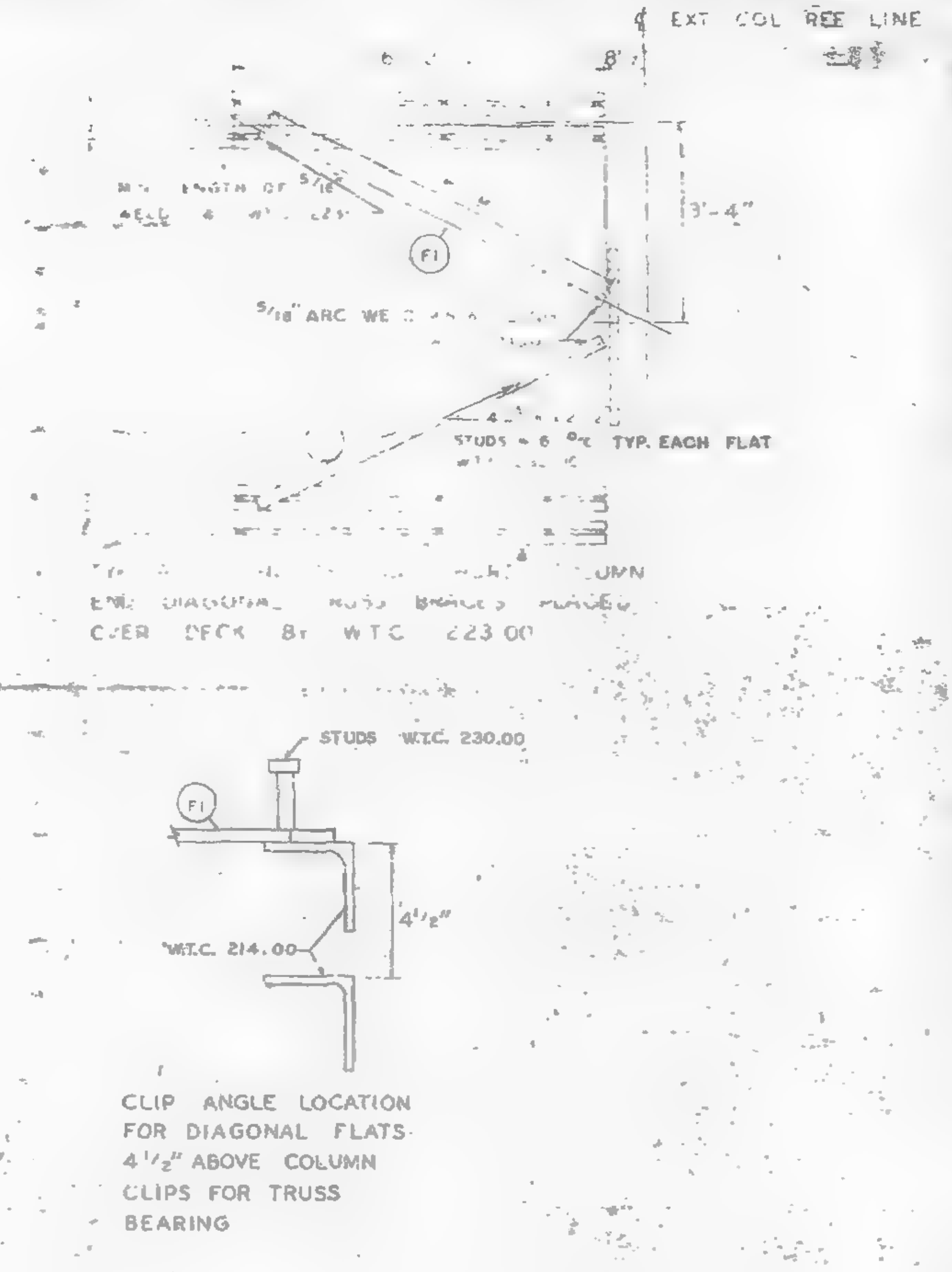
BLDG. A FLOORS 47-48 (E & W), 70-71 [illegible]
PANEL B1F - 13'-4" [illegible]
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS.
DESIGN DRAWING 7-AB1-3
APPROVED FOR FABRICATION BY James [illegible] FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE 1968
DETAILED BY [illegible] WEBER
FABRICATOR'S CONT. NO. W.T.C. 221


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
L = "M" + 5 1/4" = 58'-11"
"M" (C/C HOLES) = 59'-... 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1G 58'-11" LONG
TRUSS NO. C32T1G 58'-11" LONG
TRUSS NO. C32T1G 58'-11" LONG
TRUSS NO. C32T1G 58'-11" LONG
24T13
WC1
WC2
WC3
HC4
DUS-1
DUS-2
2 1/4" ℄ HOLES
℄ HOLES
3"
L = 58'-11"

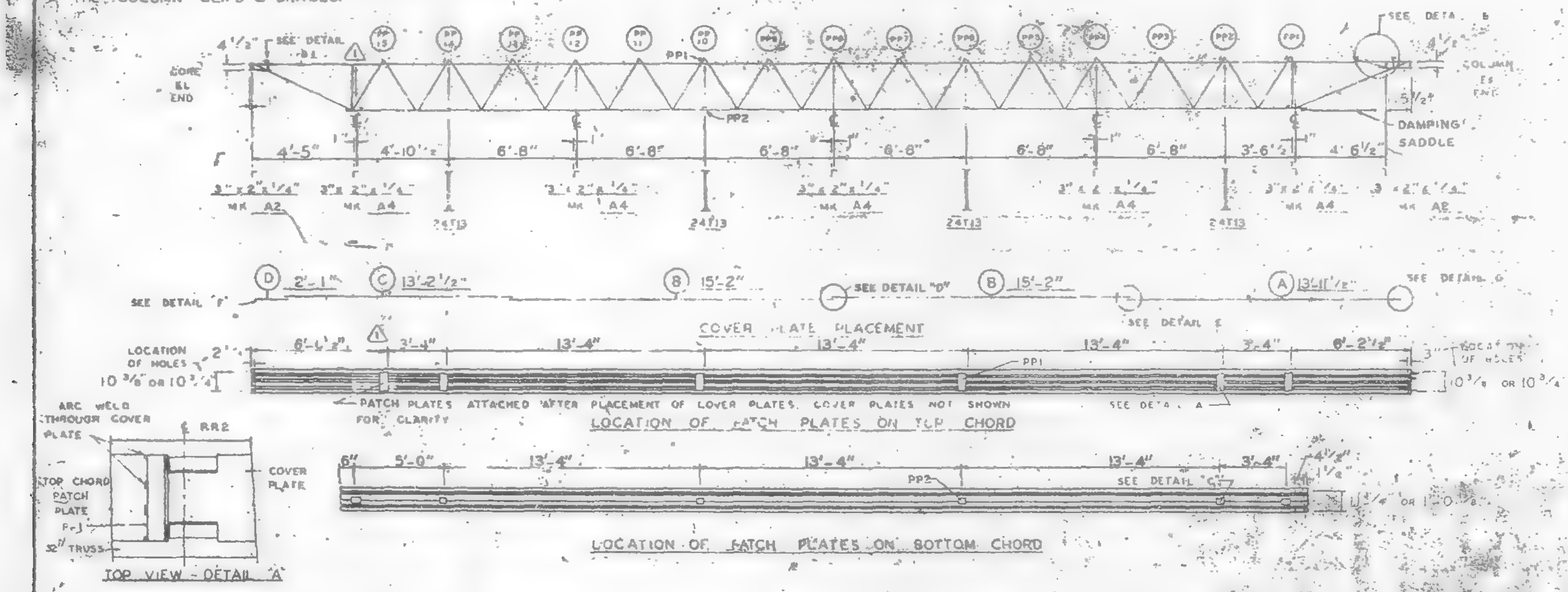
PANEL NO. B1G SIZE 13'-4" x 58'-11"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.


℄ EXT. COL. REF. LINE
3'-4"
F1
5/16 ARC WELD
STUDS 6" O.C. TYP. EACH FLAT
END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"

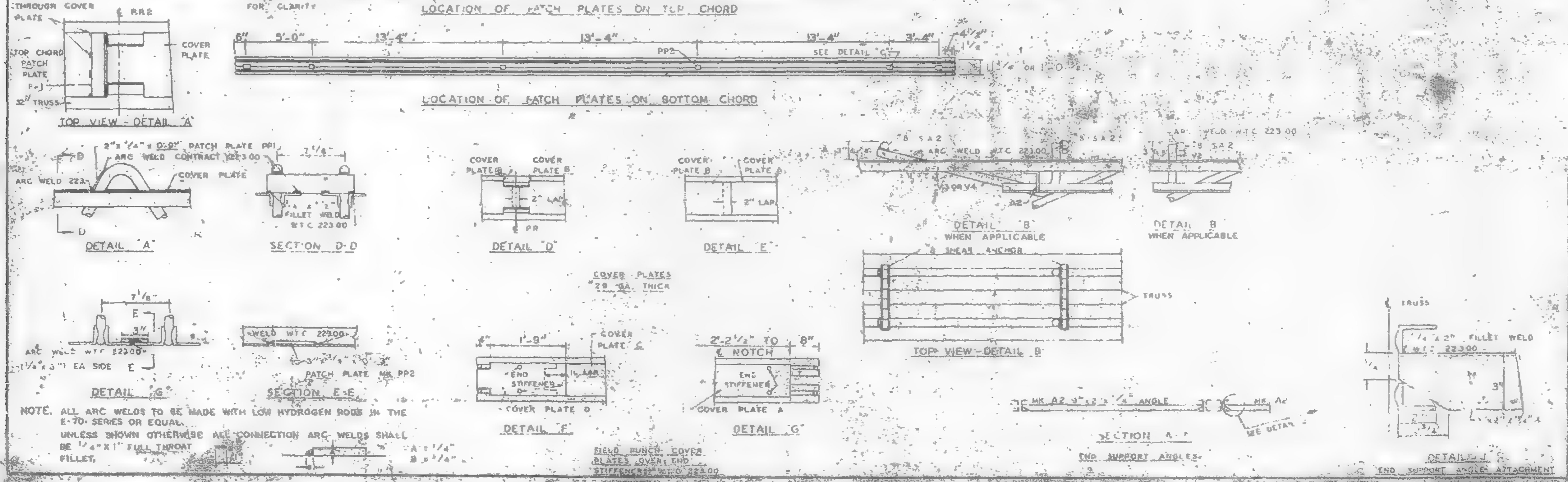
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1	4	C32T16 - 58'-11"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3 x 2 x 1/4 ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2 x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .035" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
# 8 SHEAR ANCHOR	SA2	6	# 8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2" x 3/8 x 3'-6 5/8"	ST 298
	DUS-2	1	3 1/2 x 3 1/2" x 3/8 x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400


SEE DETAIL B1
CORE EL. END
SEE DETAIL B
COLUMN EL. END
PP1
PP2
DAMPING SADDLE
4'-5"
4'-10"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
4'-6 1/2"
3" x 2" x 1/4" MK. A2
3" x 2" x 1/4" MK. A4
24T13
SEE DETAIL "F"
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11 1/2"
SEE DETAIL G
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
6'-1 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
3'-4"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY
⚠1	6-4-69	AS NOTED	


ARC WELD THROUGH COVER PLATE
℄ RR2
COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
TOP VIEW - DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223.00
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
# 8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B" WHEN APPLICABLE
# 8 SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TRUSS
TOP VIEW - DETAIL B
COVER PLATES 28 GA. THICK
ARC WELD W.T.C. 223.00
1 1/4" x 3" 1 EA SIDE
DETAIL "G"
WELD W.T.C. 223.00
3" x 3/8" x 0'-3"
PATCH PLATE MK. PP2
SECTION E-E
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK. A2 3" x 2" x 1/4" ANGLE
SECTION A-A
END SUPPORT ANGLES
TRUSS
1/4 x 2" FILLET WELD W.T.C. 223.00
DETAIL J
END SUPPORT ANGLE ATTACHMENT
A = 1/4"
B = 1/4"

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" FULL THROAT FILLET.

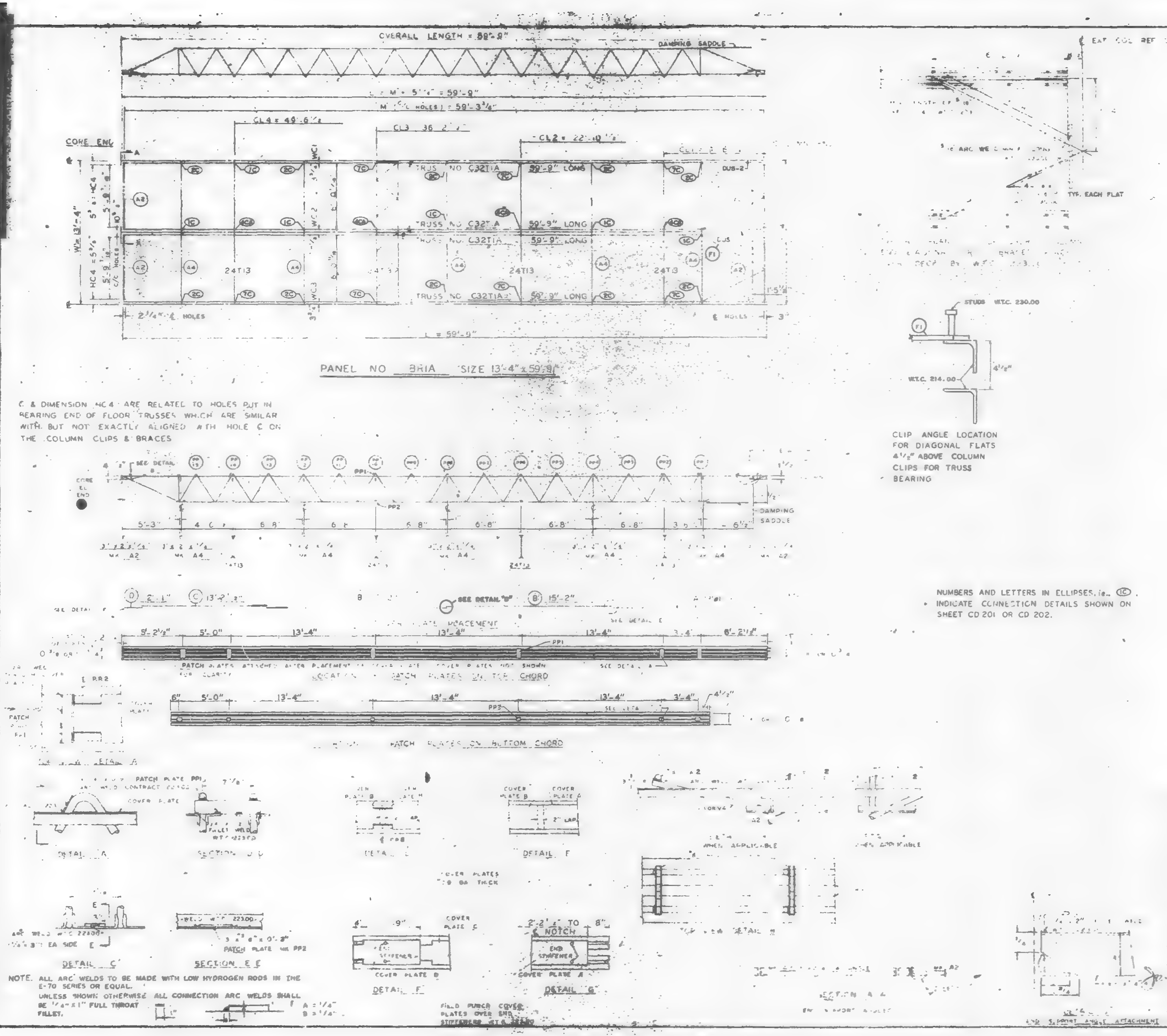
REF. DRWG.

7-AB4-3	10-15-68
7-AB4-15 & 16	7-26-68
⚠1 7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-26-68
7-AB2-8	7-26-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 39-40 (NORTH & SOUTH)
PANEL B1G - 13'-4" x 58'-11"
⚠1 BLDG. B FLOORS 39-40 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5
APPROVED FOR FABRICATION BY James Lok FOR W.C.N.A. DATE 1/2/70
DRAWN BY
DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY
DATE 1969
FABRICATION CONT. NO.


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
CL4 = 49'-6 1/2"
CL3 36'-2 1/2"
CL2 = 22'-10 1/2"
CORE END
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
24T13
DUB-2
L = 59'-9"
2 3/4" ℄ HOLES
℄ HOLES
EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
SEE DETAIL "D"
D 2'-1"
C 13'-2 1/2"
B 15'-2"
PATCH PLATE PLACEMENT
PP1
PP2
PATCH PLATES ON BOTTOM CHORD
LOCATION OF PATCH PLATES ON TOP CHORD
DETAIL A
SECTION B-B
DETAIL E
DETAIL F
DETAIL C
SECTION E-E
DETAIL G
SECTION A-A
COVER PLATE B
COVER PLATE A
END STIFFENER
2" LAP
NOTCH
WELD W.T.C. 22300
3 x 3/8" x 0'-3" PATCH PLATE MK PP2
1/4" x 3" EA SIDE
FIELD PUNCH COVER PLATES OVER END STIFFENER
COVER PLATES 20 GA THICK
END SUPPORT ANGLE ATTACHMENT
WHEN APPLICABLE

PANEL NO BR1A SIZE 13'-4" x 59'-9"

C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH, BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	T1A	4	C32T1A 59'-9"	ST 201A
[illegible] TRUSSES	T13	4	24T13 13'-3"	ST 213
[illegible] ANGLE	A2	[illegible]	[illegible]	ST 403
	A4	6	[illegible]	ST 403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
COVER PLATES	A	[illegible]	[illegible]	ST 303
	B	[illegible]	9 x .0135 x 15'-2	ST 303
	C	2	9" x .0135" x 13'-2 1/2	ST 303
	D	2	9 x .0135 x 2'-1	ST 303
ANGLE CLIP	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
[illegible]	SA2	8	#8 REBAR x 0-5	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	ST 298
	DS2	[illegible]	[illegible] 6 7/8	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/8"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

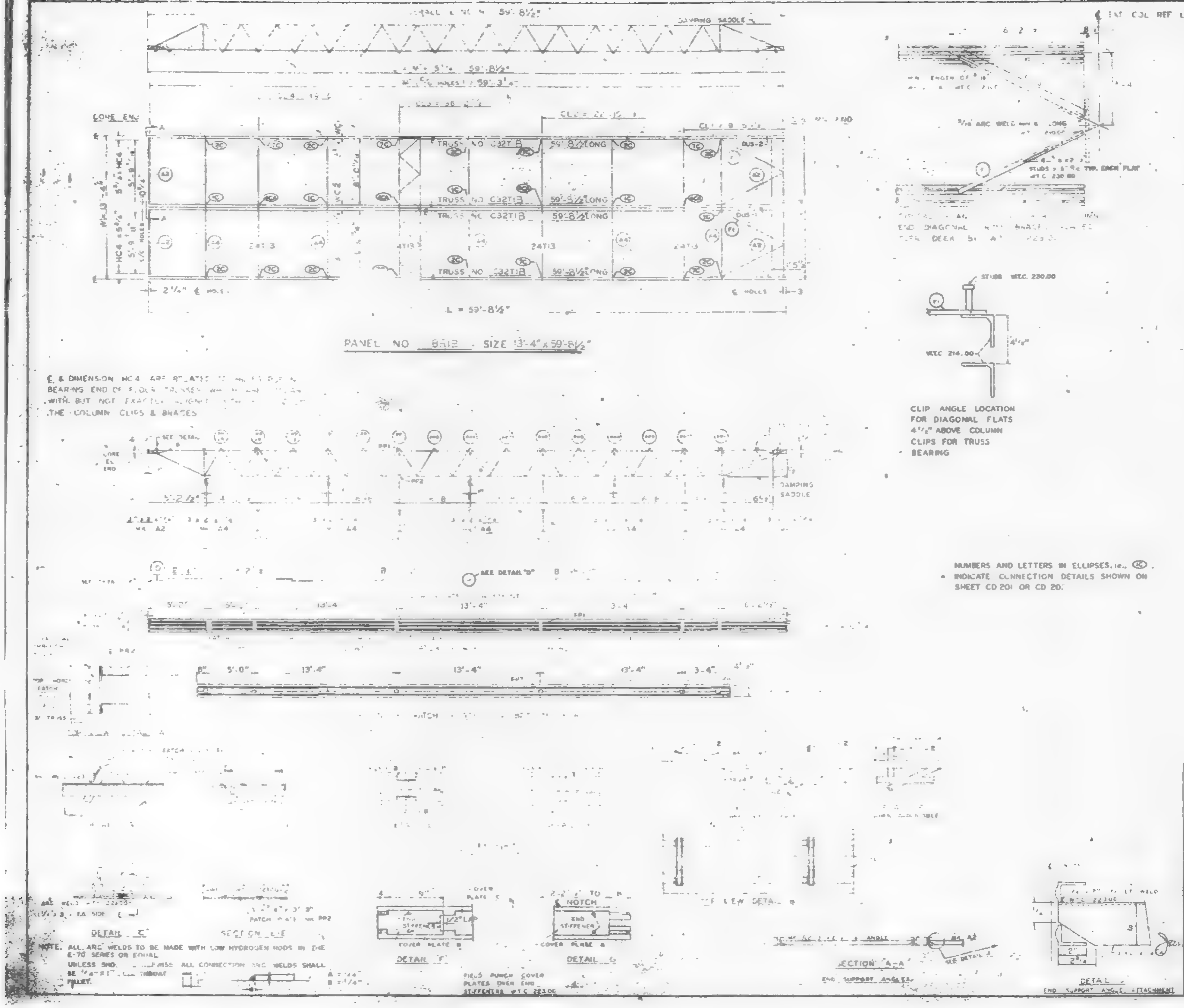
NO.	DATE	REVISION	BY
1	7-15-68	GENERAL	TMC

[illegible] NEW YORK [illegible] AUTHORITY

BLDG A FLOORS [illegible] 28, [illegible] 56, 58

BY NORTH [illegible] PANEL BR1A [illegible] 4 [illegible] 59'-9

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO [illegible] 4-1-68	PLATE
APPROVED FOR FABRICATION BY [illegible] DATE 8/16/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J.S. PAIR DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. L. WEBER	FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR1A


CORE END
TRUSS NO. C32T18 59'-8 1/2" LONG
24T13
DUS-2
DAMPING SADDLE
EXT. COL. REF. LINE
END DIAGONAL
SEE DETAIL "D"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
COVER PLATE B
COVER PLATE A
END STIFFENER
NOTCH
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
W.T.C. 214.00
ST108 W.T.C. 230.00

PANEL NO. B81B SIZE 13'-4" x 59'-8 1/2"

℄ & DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES ... WITH BUT NOT EXACTLY ALIGNED ... THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ. INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHO. OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" ... THROAT FILLET.

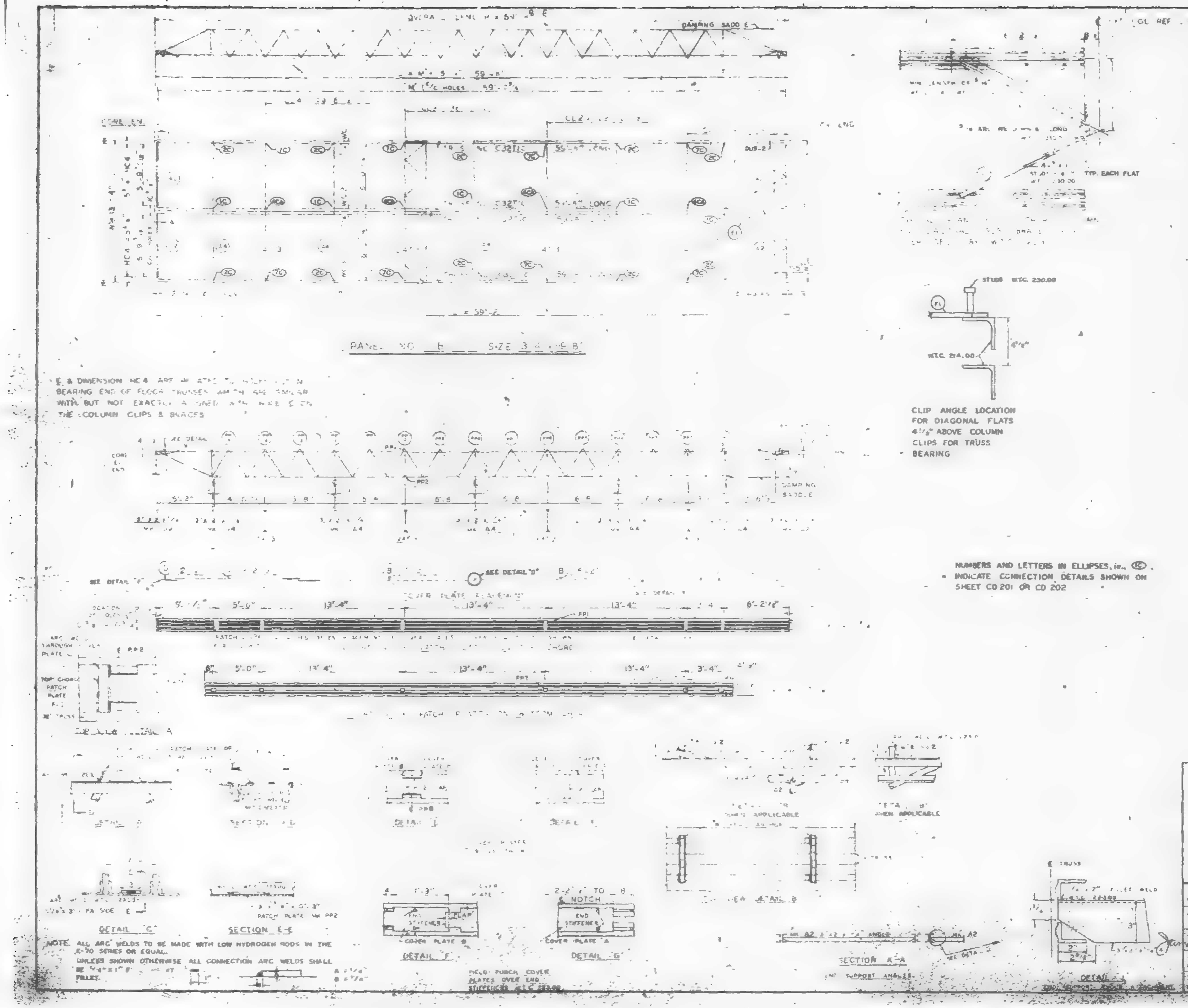
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T.8	4	C32T18 - 59'-8 1/2"	ST208A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-1 9/16"	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2 x 5/8 x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4" x 0'-9"	ST 400
	PP2	12	3 x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9 x 0.35" x 3'-1 1/2"	ST303
	B	4	9" x 0.135" x 15'-2"	ST303
	C	2	9" x .035" x 13'-2 1/2"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	8	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2" x 3/8" x 3'-6 7/8	ST298
	DUS 2		3 1/2 x 3 1/2" x 3/8 x 3'-6 7/8	ST298
CONNECTION BAR	CB1	4	#8 x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

ARC 42 10-15-68
10-11-68
7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 83 ...
PANEL B... 13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. ... 7-22-68 PLATE
APPROVED FOR FABRICATION W. White FOR PONYA DATE 11/11/68
DRAWN BY ... DATE 7-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. M. MORAN DATE
IN CHARGE OF
FABRICATION CONTR. NO. W.T.C. 221
SHEET NO.
DETAILED BY ...


CORE END
PANEL NO. E SIZE
SEE DETAIL "D"
COVER PLATE
DAMPING SADDLE
STUD W.T.C. 230.00
W.T.C. 214.00
4 1/2"
TYP. EACH FLAT
PATCH PLATE MK PP2
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
COVER PLATE B
COVER PLATE A
END STIFFENER
NOTCH
WHEN APPLICABLE
TRUSS
FILLET WELD
FIELD PUNCH COVER PLATES OVER END STIFFENER

E & DIMENSION MC4 ARE [illegible] BEARING END OF FLOOR TRUSSES [illegible] SIMILAR WITH BUT NOT EXACTLY [illegible] THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" X 1" [illegible] FILLET.
A = 1/4"
B = 3/8"

REQUIRED MATERIAL PER PANEL

MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	TC	4	C32T C - 59'-8"	ST201C
BRIDGING TRUSSES	T3	4	24T3 - 13'-3	ST210
ANGLE	A2	4	[illegible]	ST403
	A4	5	[illegible] 3'-3	ST403
DIAGONAL FLATS		4	[illegible] x 6'-6"	ST402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9"	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
[illegible] PLATES	A	2	6" x 0.35" x 13'-11 1/2"	ST303
	B	4	6 x .035" x 15'-2"	ST303
	C	2	9" x .035" x 13'-2 1/2"	ST303
	[illegible]	2	6 x .035 x 2'-1"	ST303
ANGLE CLIPS		16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0-9	ST 400
DAMPING SADDLE	DS	1	3 1/2 x 3 1/2 x 3/8 x 3-6 7/8	ST298
	DS2	1	3 1/2 x 3 1/2 x 3/8 x 3-6 7/8	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-8"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

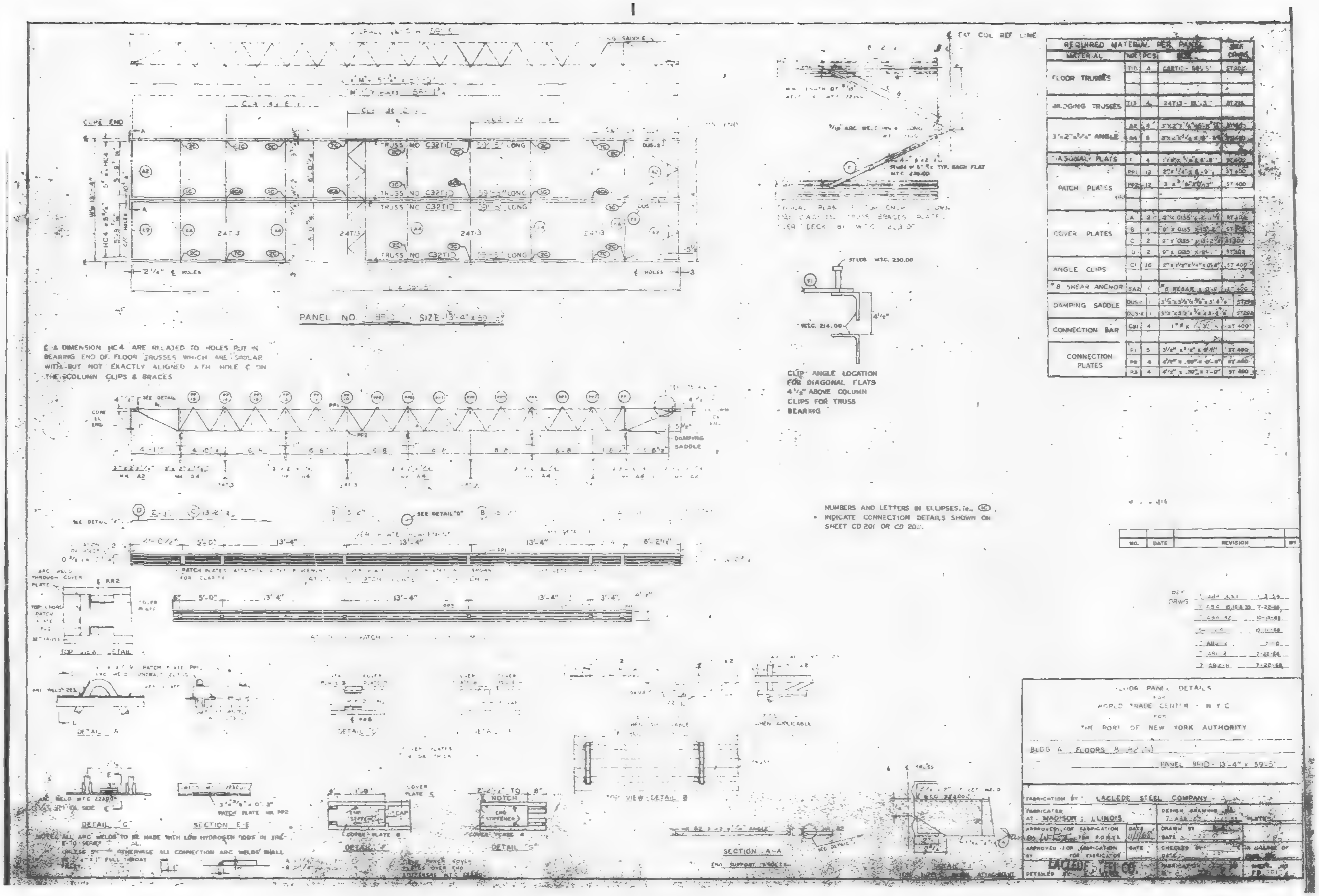
NO.	DATE	REVISION	BY

REF DRWGS
- ? AB4 -3,3,4 4-3-68
- ? AB4 15,16 & 30 7-22-68
- ?-AB4 42 10-15-68
- [illegible] 24 10-11-68
- ? AB4 [illegible] [illegible]
- ? [illegible] 2 7-22-68
- ? AB2 E 7-22-68

FLOOR PANEL DETAILS
[illegible]
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL SIZE 13' 4" x 59'-[illegible]

FABRICATION BY - LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. [illegible] 7-22-68 PLATE	
APPROVED FOR FABRICATION James [illegible] FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY [illegible] DATE 10-22-68	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE [illegible]	IN CHARGE OF [illegible]
LACLEDE STEEL CO. DETAILED [illegible]		FABRICATION [illegible] W.T.C. 220	SHEET [illegible]



PANEL NO 8B1D SIZE 13'-4" x 59'-5"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH-BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., Ⓒ,
INDICATE CONNECTION DETAILS SHOWN ON
SHEET CD 201 OR CD 202.

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE "E-70 SERIES"

UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	4	C32T1D - 59'-5"	ST 205
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 218
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x[illegible]	ST 403
	A4	6	3"x2"x1/4"x13'-[illegible]	[illegible]
DIAGONAL FLATS	F	4	1 1/8"x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4"x 6'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9"x 0135" x 3'-[illegible]	ST 302
	B	4	9" x 0135 x 13'-2"	ST 302
	C	2	9" x 0135" x 13'-2 1/4"	ST 302
	D	2	9" x 0135" x [illegible]	ST 302
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 5'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x [illegible]	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

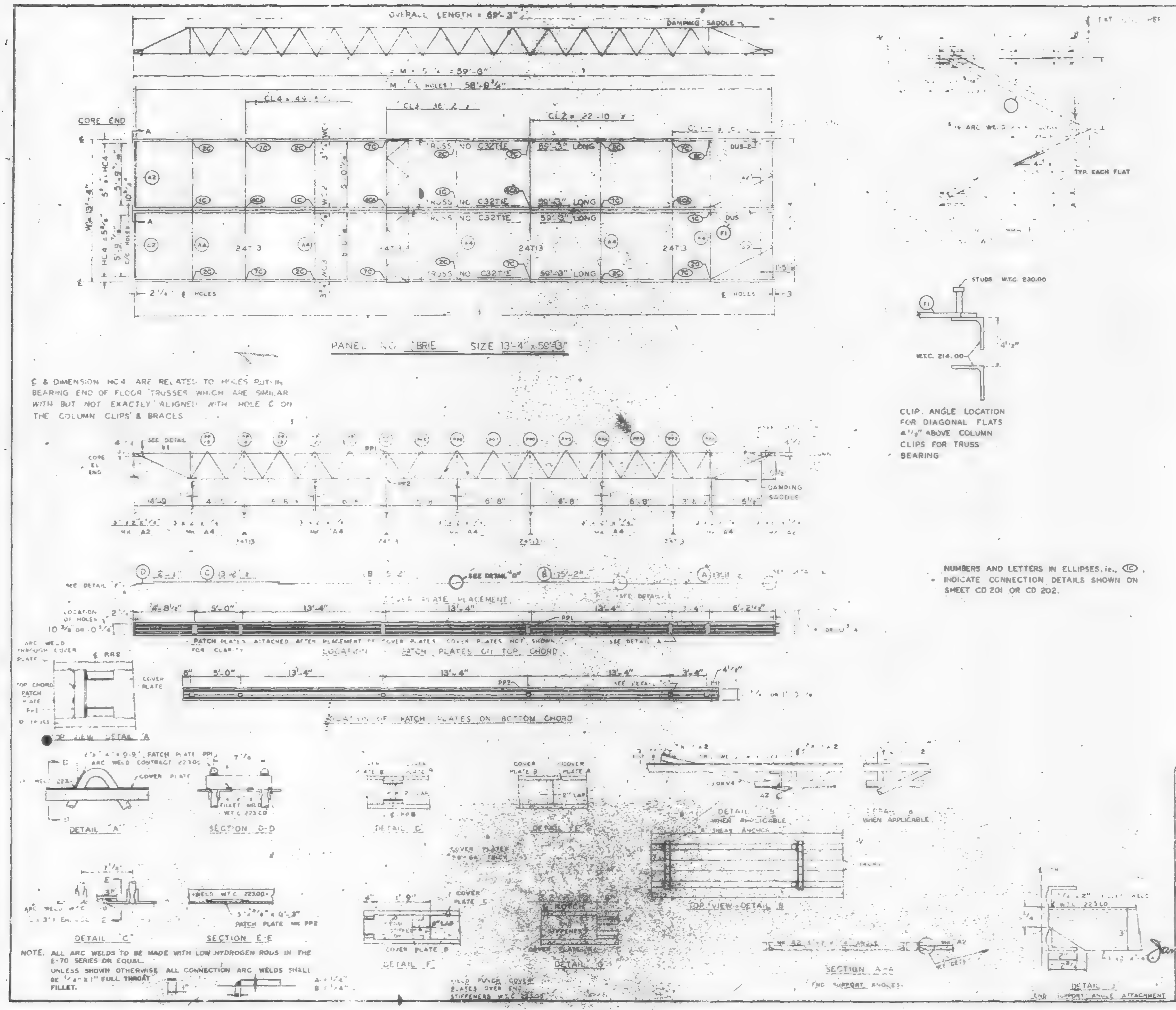
NO.	DATE	REVISION	BY

REF DRWGS
7-AB4-33.1 7-3-69
7-AB4-15,18 & 30 7-22-68
7-AB4-42 10-15-68
S-[illegible]4 10-11-68
7-AB2-[illegible] 7-[illegible]8
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 8-82 (x)
PANEL 8B1D - 13'-4" x 59'-5"

FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-6 7-22-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY DATE 7-22-68	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY DATE	IN CHARGE OF
DETAILED BY LACLEDE STEEL CO.		FABRICATION BY	SHEET NO. FP 8B1D


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
CORE END
TRUSS NO C32TIE 59'-3" LONG
24T3
PANEL NO. BRIE SIZE 13'-4" x 59'-3"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL C
DETAIL "E"
DETAIL "B" WHEN APPLICABLE SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP. ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	[illegible]	4	[illegible]32TE 59'-3"	ST 201D
[illegible]	T3	4	24T[illegible] 13'-3	BT 2.3
[illegible] ANGLE	A2	[illegible]	[illegible]	ST 403
	A4	5	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
[illegible]		16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
[illegible]	[illegible]2	6	#6 REBAR x [illegible]	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	T29A
	[illegible]	[illegible]	[illegible]	T29B
[illegible] BAR	CB1	4	[illegible] 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

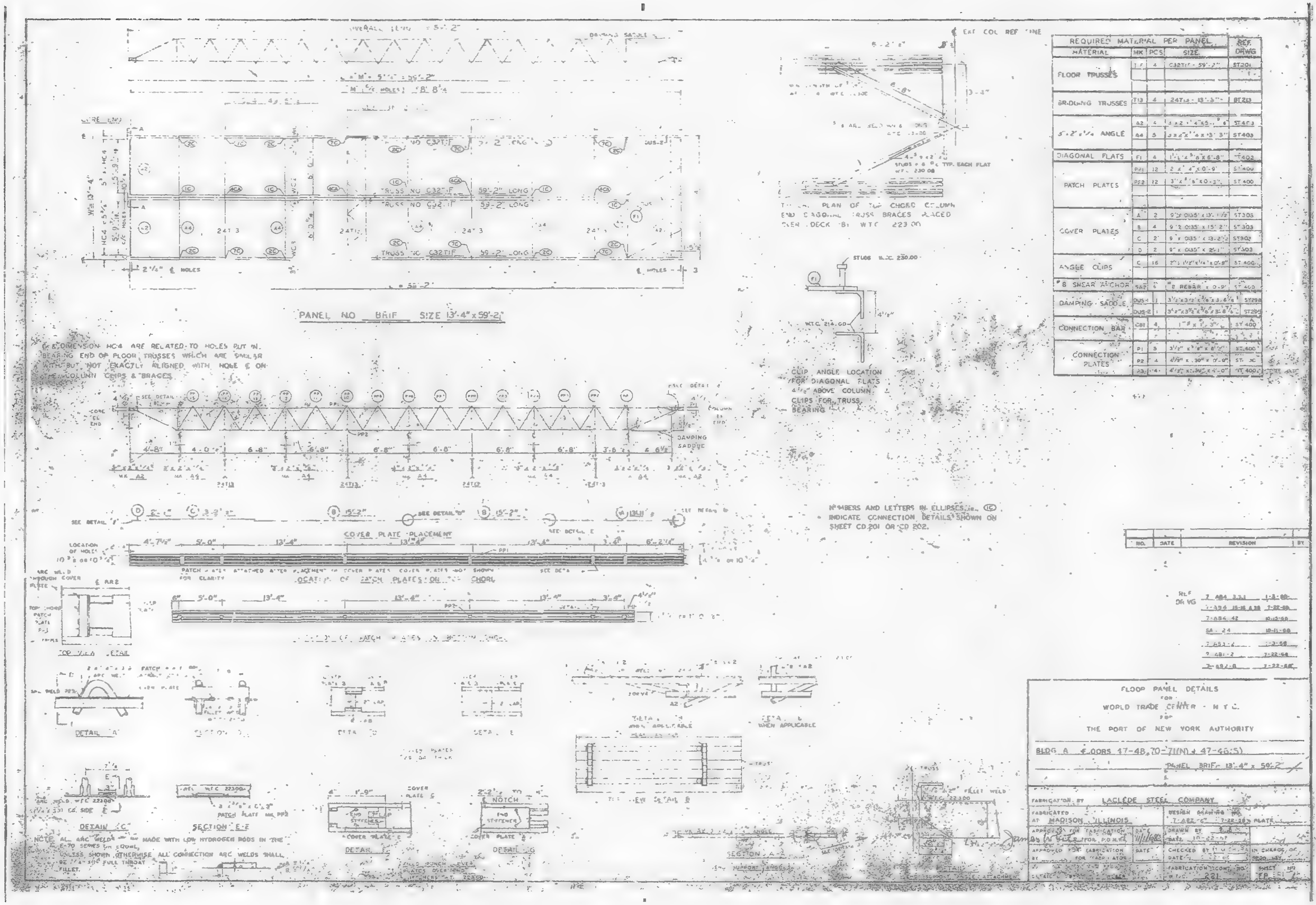
1	7-15-68	GENERAL	J.M.C.
NO.	DATE	REVISION	BY

FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS [illegible] (SOUTH)
PANEL BRIE 13'-4" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-493 E 4-1-68 PLATE
APPROVED FOR FABRICATION FOR PONYA James White DATE 8/16/68	DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE	CHECKED BY J.R.P.A.L. DATE FEB 24, 19[illegible]8
DETAILED BY A. WEBER	FABRICATION CONT NO W.T.C. 221
IN CHARGE OF PROD. DEV.	SHEET NO FF BRIE

0100-0199

WTC1-131-LCCA


OVERALL LENGTH 59'-2"
DAMPING SADDLE
PANEL NO BRIF SIZE 13'-4" x 59'-2"
TRUSS NO C32T1F 59'-2" LONG
W= 13'-4"
2 1/4" ℄ HOLES
CORE ℄L END
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
TOP VIEW DETAIL
DETAIL "A"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
SECTION A-A
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	TF	4	C32T1F - 59'-2"	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
5"x2"x1/4 ANGLE	A2	4	5x2x1/4"x5'-6"	ST403
	A4	5	5x2"x1/4x 3'3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-1/2"	ST303
	B	4	9" x .0135" x 15'2"	ST303
	C	2	9" x .0135" x 13-2 1/2	ST302
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C	16	2"x 1 1/2"x 1/4"x 0'-5"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-6 5/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-8 7/8"	ST299
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 0'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL, UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 1/2" FULL THROAT FILLET.

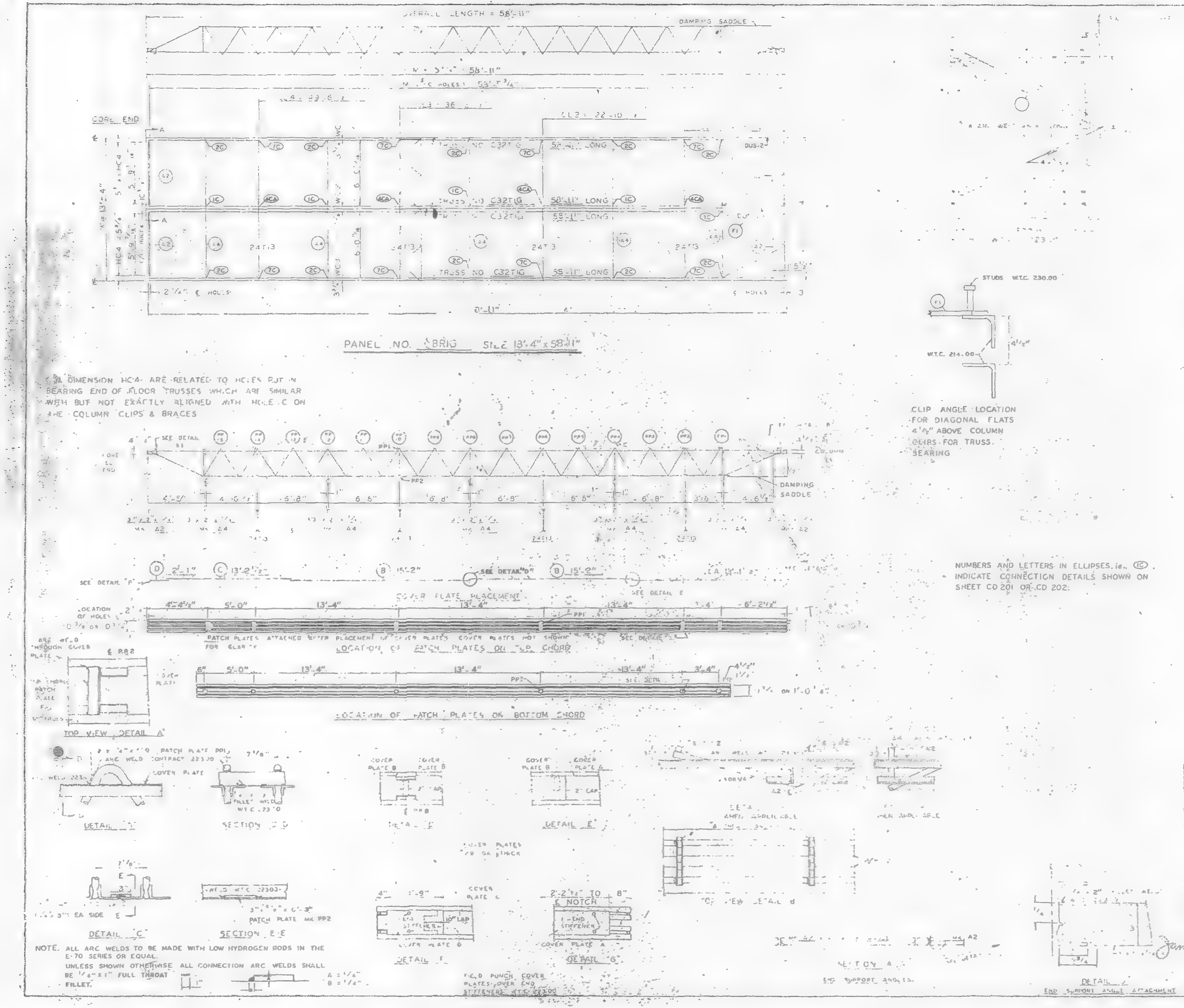
NO.	DATE	REVISION	BY

REF DRWG
7 AB4 3.3.1 — 1-3-68
7-AB4 15-16 A38 — 7-22-68
7-AB4 42 — 10-13-68
SA - 24 — 10-11-68
7 AB3-2 — 1-3-68
7 AB1-2 — 7-22-68
7-AB2-8 — 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48, 70-71(N) + 47-48(S)
PANEL BRIF - 13'-4" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB2-6 7-22-68 PLATE
APPROVED FOR FABRICATION James W White FOR P.O.N.Y.A. DATE 11/1/68
DRAWN BY DATE 10-22-68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE
IN CHARGE OF
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP 581


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
CORE END
TRUSS NO C32T1G 58'-11" LONG
24T13
2'1/4" ℄ HOLES
DUS-2
F1
PANEL NO. BRIG SIZE 13'-4" x 58'-11"
SEE DETAIL B1
PP1
PP2
DAMPING SADDLE
SEE DETAIL "D"
SEE DETAIL E
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
COVER PLATE
DETAIL D
SECTION D-D
DETAIL B
DETAIL E
2" CAP
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
EA SIDE
DETAIL C
WELD W.T.C. 223.03
PATCH PLATE MK PP2
SECTION E-E
10" LAP
END STIFFENER
COVER PLATE A
DETAIL F
2'-2 1/2" TO 8"
℄ NOTCH
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT

DIMENSION HC-4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

[illegible] MATERIAL PER PANEL				REF DRWG
[illegible]	[illegible]	[illegible]	SIZE	
	[illegible]	4	C32T1G 58'-11"	ST 201G
	[illegible]	4	24T[illegible]	ST 213
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	5	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	3" x 3/8" x [illegible] 3"	ST 400
[illegible]	[illegible]	2	[illegible]	ST 303
	B	4	9" x .0135 x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
[illegible]	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
[illegible]	SA2	6	#8 REBAR x [illegible]	ST 400
[illegible]	DUS-1	1	[illegible] 6 7/8	ST 298
	DUS-2	1	[illegible] x 3 1/2 x 3/8 x 3-6 7/8	ST 298
[illegible] BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x [illegible]-0"	ST 400

NO.	DATE	REVISION	BY
△1	7-15-68	GENERAL	T.M.C.

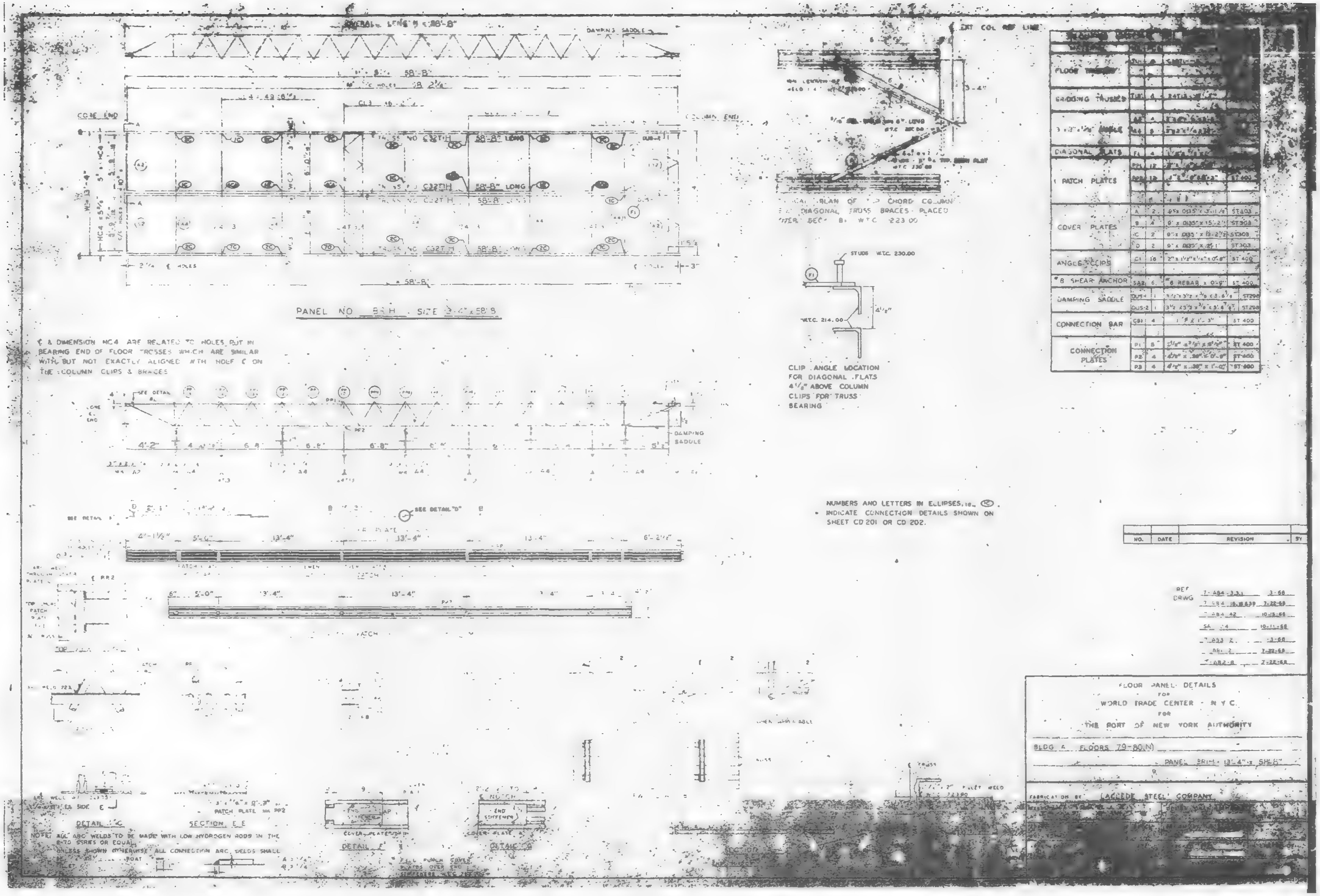
1 ASA 1,3,1 & 30 3-68
2 ASA 15 & 16 5-6-68
3 ASA 42 4-1-68
4 [illegible] 3-20-6[illegible]
5 ASA 2 3-68
6 [illegible] 2 2-5-68
7 ASA [illegible] 5-15-68

[illegible] AUTHORITY

[illegible] 10-1,35 [illegible] 39 [illegible]

PANEL BRIG 13'-4 x 58'-11

LACLEDE STEEL COMPANY
[illegible] MADISON, ILLINOIS
APPROVED FOR FABRICATION James [illegible] FOR [illegible] DATE 8/16/68
APPROVED FOR FABRICATION BY [illegible] FABRICATOR DATE
LACLEDE STEEL CO.
DETAILED BY A. L. WEBER
DESIGN DRAWING NO 7 [illegible] 6 4-1-68 PLATE
DRAWN BY [illegible] DATE FEB 24, 1968
CHECKED BY J.S. PAIN DATE FEB 24, 1968
IN CHARGE OF PROD. DIV.
FABRICATION CONT NO
WT 221
SHEET NO FP BRIG



OVERALL LENGTH = 58'-8"
DAMPING SADDLE
58'-8"
58'-2½"
CORE END
COLUMN END
TRUSS NO C32T H 58'-8" LONG
TRUSS NO C32T H 58'-8" LONG
TRUSS NO C32T H 58'-8" LONG
2C
7C
F1
2¼ ℄ HOLES
58'-8"
EXT COL ℄ LINE
4'-2"
6'-8"
6'-8"
6'-8"
DAMPING SADDLE
SEE DETAIL "D"
4'-1½"
5'-0"
13'-4"
13'-4"
13'-4"
6'-2½"
5'-0"
13'-4"
13'-4"
PATCH
STUDS W.T.C. 230.00
4½"
W.T.C. 214.00
F1

PANEL NO 8-H . SIZE 13'-4" x 58'-8"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED AFTER SEC B W.T.C. 223.00

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (2C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	4	[illegible]	[illegible]
3 x 3" x ¼" ANGLE	[illegible]	4	[illegible]	[illegible]
	[illegible]	8	[illegible]	[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	[illegible]	ST 400
COVER PLATES	A	2	9" x 0.135" x 3'-11½"	ST 303
	B	4	9" x 0.135" x 15'-2½"	ST 303
	C	2	9" x 0.135" x 13'-2½"	ST 303
	D	2	9" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜ x 3'-6⅞"	ST 290
	DUS-2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 290
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x [illegible]	ST 400
	P2	4	4½" x .36" x 0'-6"	ST 400
	P3	4	4½" x .36" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG
7-AB4-3.3.1 3-68
7-AB4-18.18A39 7-22-68
7-AB4-42 10-15-68
SA-14 10-11-68
7-AB3-2 3-68
AB1-2 7-22-68
7-AB2-8 7-22-68

DETAIL C

SECTION E-E

3"x⅜"x 9'-3" PATCH PLATE PP2

DETAIL F

DETAIL G

COVER PLATE

END STIFFENER

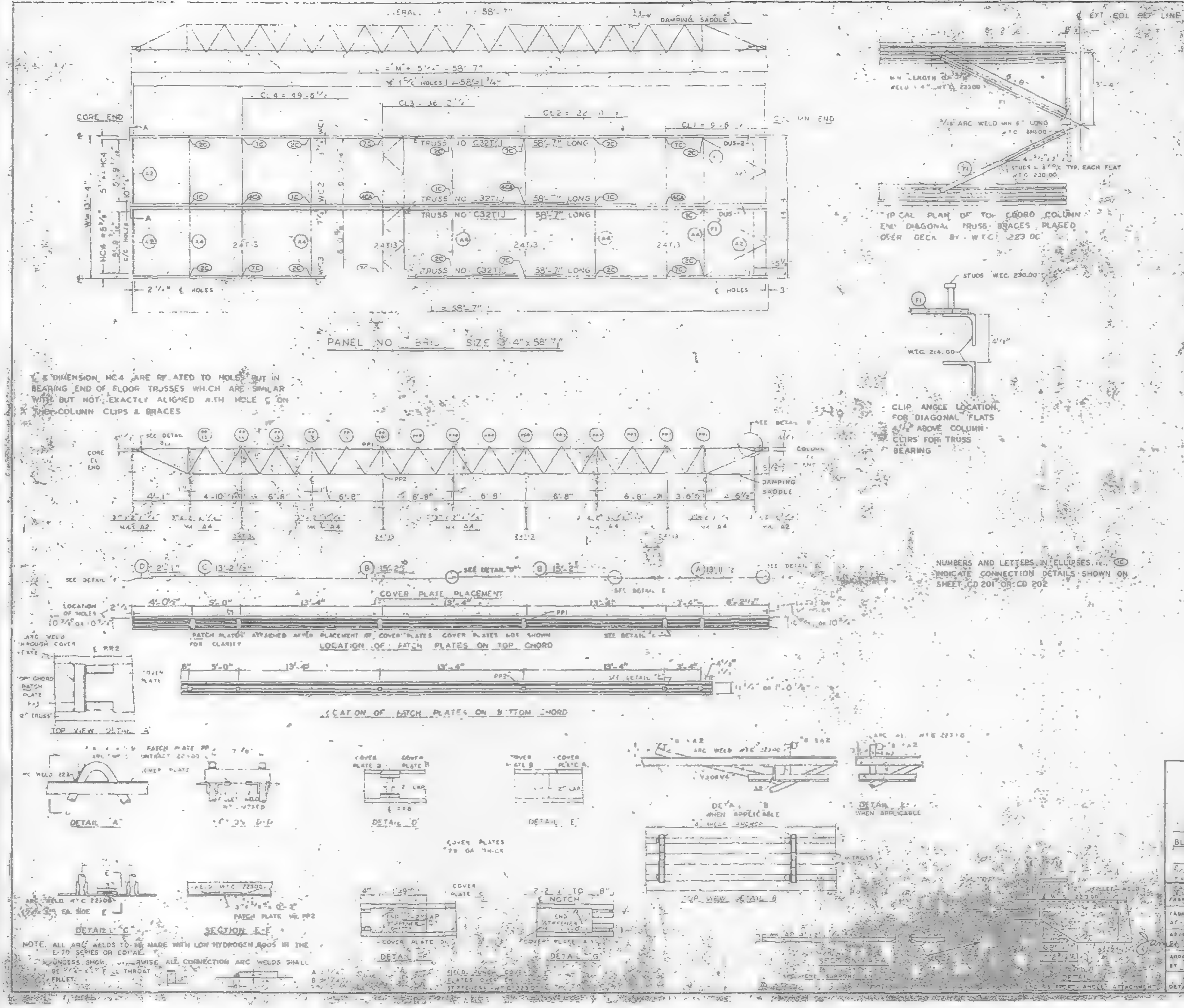
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FILLET

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 2[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 79-80 (N)
PANEL 8H - 13'-4" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY


58'-7"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1J 58'-7" LONG
PANEL NO 9R1J SIZE 13'-4" x 58'-7"
SEE DETAIL
CORE CL END
COLUMN
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL B
DETAIL A
DETAIL D
DETAIL E
DETAIL G
SECTION E-F
DETAIL F
PATCH PLATE MK PP2
WELD WTC 223.00
ARC WELD WTC 223.00
EA SIDE
COVER PLATES
EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY WTC 223.00
STUDS WTC 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES BUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 1/2" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32T1J - 58'-7"	ST 201
BRIDGING TRUSSES	T3	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 5/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	F	4	1/2" x 5/8" x 6'-6"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 13'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3" x 3/8" x 3'-8 7/8"	ST 298
	DUS-2		3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ⌀ x 3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .5386" x 0'-8"	ST 400
	P3	4	4 1/2" x .386" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

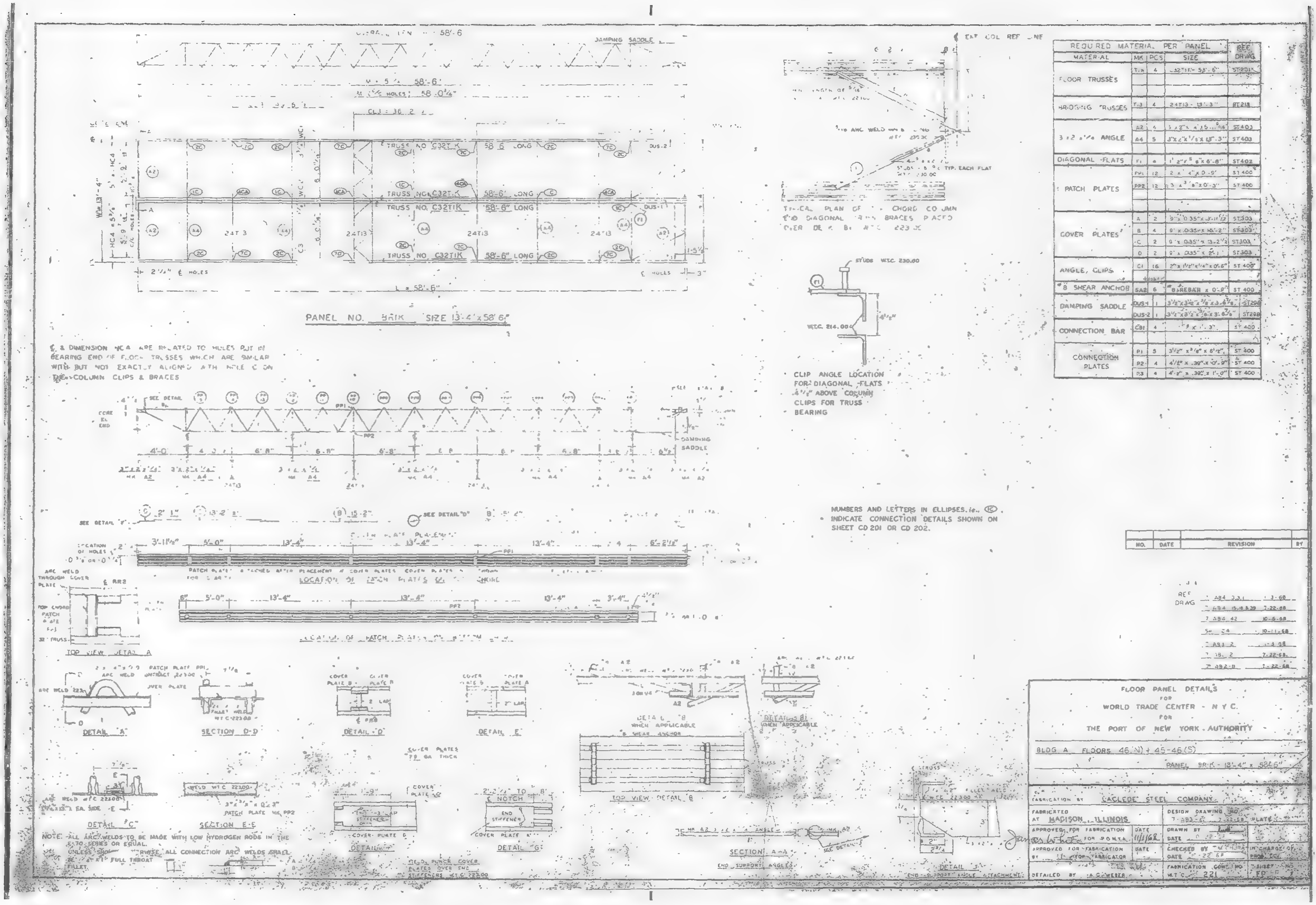
7-AB4 3,3,1	1-3-68
7-AB4-5,16 & 39	7-22-68
7-AB4 42	10-15-68
SA 124	10-11-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 40(N)
PANEL 9R1J 13'-4" x 58'-7"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAW NO. 7-AB3-6 7-22-68	PLATE
APPROVED FOR FABRICATION James [illegible] FOR P.O.N.Y.A.	DATE /68	DRAWN BY [illegible] DATE 7-22-68	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE 7-22-68	IN CHARGE OF PROD. [illegible]
DETAILED BY [illegible] WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO.


DAMPING SADDLE
58'-6"
58'-0¼"
TRUSS NO. C32T1K 58'-6" LONG
24T13
L = 58'-6"
2¼" ℄ HOLES
℄ HOLES
PANEL NO. 9B1K SIZE 13'-4"x58'-6"
TYPICAL PLAN OF CHORD COLUMN END DIAGONAL BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CORE ℄ END
SEE DETAIL
PP1
PP2
4'-0"
6'-8"
DAMPING SADDLE
SEE DETAIL "D"
LOCATION OF PATCH PLATES
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
WELD W.T.C. 22300
3"x⅜"x0'-3" PATCH PLATE MK PP2
ARC WELD W.T.C. 22300
EA. SIDE
COVER PLATE
STIFFENER
DETAIL
DETAIL "G"
NOTCH
SECTION A-A
END SUPPORT ANGLE
DETAIL "J"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⑮ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.K	4	C32T1K - 58'-6"	ST201K
BRIDGING TRUSSES	T.3	4	24T13 - 13'-3"	ST213
3 x 2 x ¼ ANGLE	A2	4	3"x2"x ¼"x 5'-[illegible]	ST403
	A4	5	3"x2"x¼"x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1½"x⅝"x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x¼"x 0'-9"	ST 400
	PP2	12	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	2	9"x 0.35"x 3'-11½"	ST303
	B	4	9"x 0.35"x 13'-2"	ST303
	C	2	9"x 0.35"x 13'-2½"	ST303
	D	2	9"x 0.35"x 2'-1"	ST303
ANGLE, CLIPS	C1	16	2"x 1½"x¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x 3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

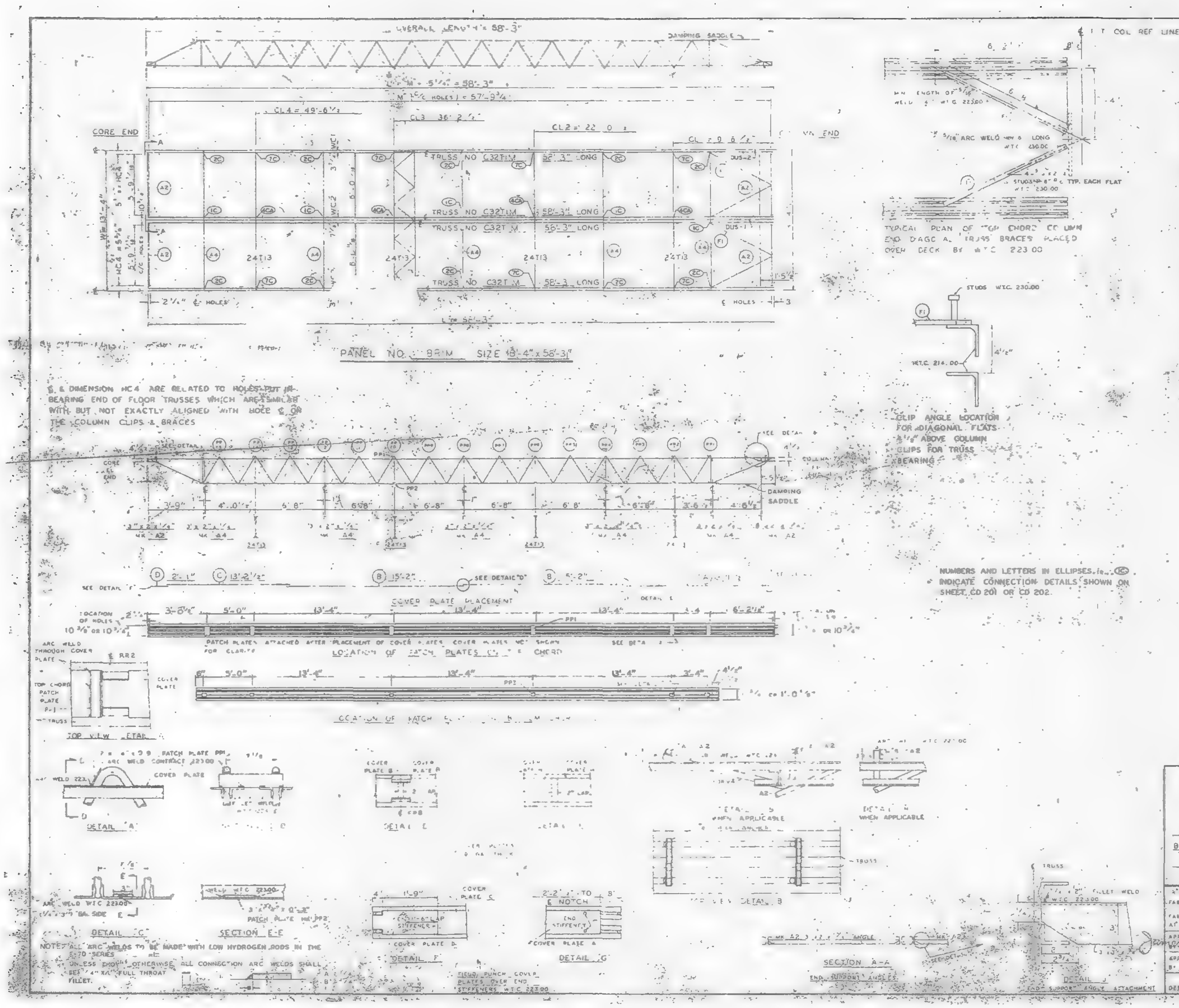
REF DRWG	
7 AB4 3,3,1	1-3-68
7 AB4 15,18 & 39	7-22-68
7 AB4 42	10-5-68
SW 24	10-11-68
7 AB3 2	1-3-68
7 AB1 2	7-22-68
7 AB2-B	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46(N) + 45-46(S)
PANEL 9B1K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-6 7-22-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY [illegible] DATE [illegible]	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY M. CHURA DATE 10-22-68	IN CHARGE OF PROD. ENG.
DETAILED BY A.G. WEBER		FABRICATION CONTR. NO. W.T.C. 221	SHEET NO. FD [illegible]


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
CORE END
COL REF LINE
TRUSS NO C32T1M
TRUSS NO C32T M
58'-3" LONG
24T13
CL4 = 49'-6½"
CL3 36'-2"
CL2 = 22'-0"
PANEL NO. 89IM SIZE 13'-4" x 58'-3"
TYPICAL PLAN OF TOP CHORD OF COLUMN END DIAG. & TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL
DETAIL "A"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
DETAIL "H" WHEN APPLICABLE
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
NOTCH
END STIFFENER
ARC WELD W.T.C. 223.00
PATCH PLATE MK PP2

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ OR THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. Ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x A" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5-11 [illegible]	ST 403
	A4	5	3"x2"x¼ x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	½" x [illegible]" x 5'-8"	ST 402
PATCH PLATES	PP1	12	2 x ¼" x 0'-9"	ST 400
	PP2	12	3 x ¾" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-[illegible]	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½ x 3½ x ⅜" x 3'-6⅞"	ST 298
	DUS-2		3½ x 3½ x ⅜ x 3'-6⅞	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 8½"	ST 400
	P2	[illegible]	4½" x .38" x 0'-9"	ST 400
	P3	4	4½" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

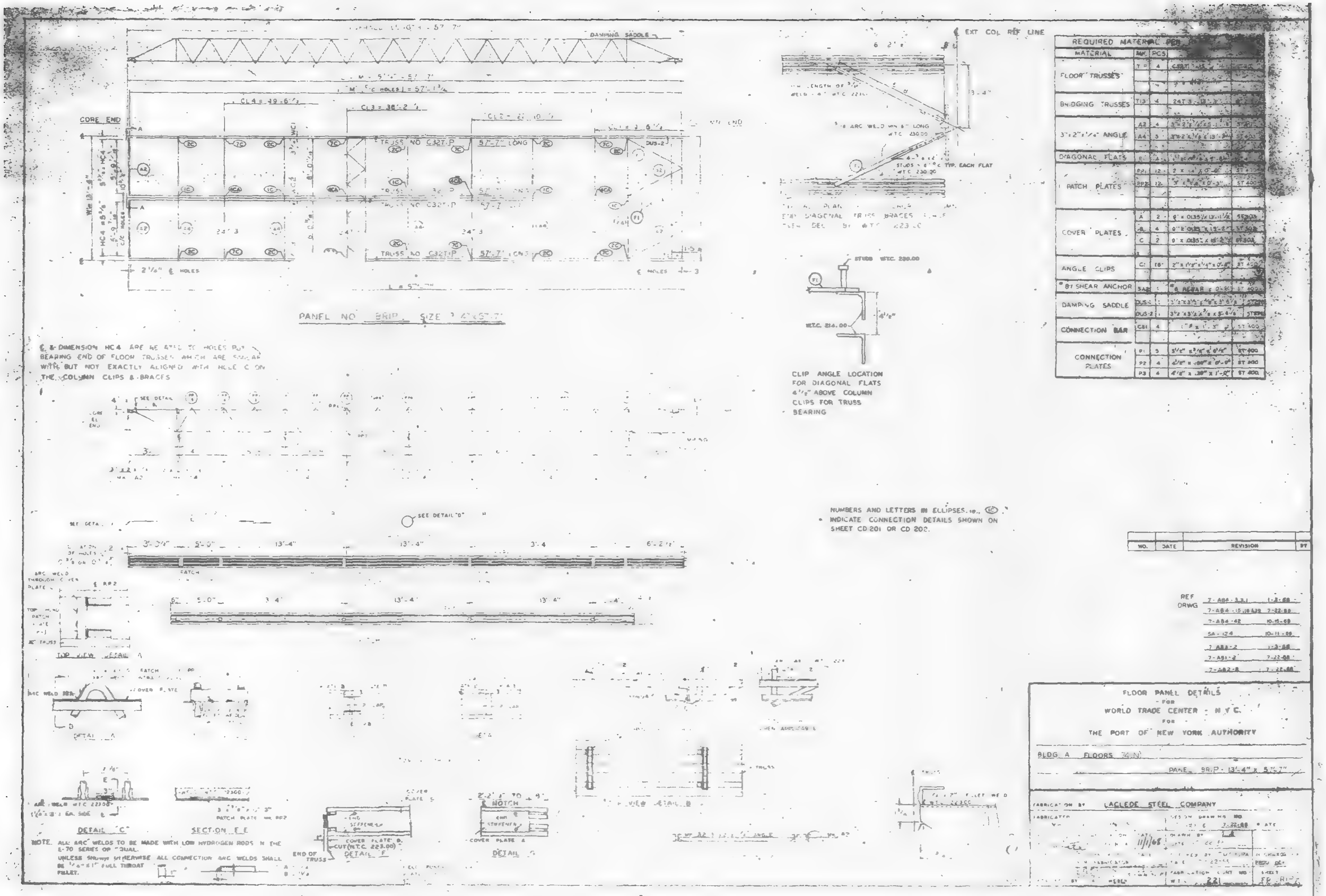
REF DRWG
7-AB4-33 1-3-68
7-AB4-15,16&30 7-22-68
7-AB4-42 10-15-68
[illegible] 10-1-68
7-AB4-2 1-3-68
7-AB4-4 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73(N)
PANEL 89IM - 13'-4" x 58'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-[illegible] 7-22-68	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 11/1/68	DRAWN BY [illegible] DATE 7-22-68	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE [illegible]	CHECKED BY [illegible] DATE 7-22-68	[illegible]
DETAILED BY A.E. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. [illegible]


DAMPING SADDLE
EXT COL REF LINE
CORE END
TRUSS NO C32T-P 57'-7" LONG
CL4 = 49'-6"
CL3 = 38'-2"
24'-3"
2 1/4" ℄ HOLES
PANEL NO 9RIP SIZE 13'-4" x 57'-7"
SEE DETAIL "D"
PATCH
TOP VIEW DETAIL A
DETAIL A
STUDS WTC 230.00
WTC 214.00
4 1/2"
STUDS 6" c/c TYP. EACH FLAT WTC 230.00
END OF TRUSS
CUT (WTC 223.00)
DETAIL F
NOTCH
DETAIL G
PATCH PLATE NO PP2
ARC WELD WTC 22300
1 1/2" x 3" 2 EA. SIDE

REQUIRED MATERIAL PER [illegible]				
MATERIAL	MK.	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T P	4	C32T [illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T 3 - 13'-3"	[illegible]
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-1 [illegible]	ST 400
	A4	5	3"x2"x1/4"x13'-3 [illegible]	ST 400
DIAGONAL FLATS	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	2 x 1/4 x 0'-6"	ST 400
	PP2	12	3" x 3/16 x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.135" x 13'-1 1/2	ST 302
	B	4	9" x 0.135" x 13'-2"	ST 302
	C	2	9" x 0.135" x 15'-2"	ST 302
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	[illegible]	3 1/2"x3 1/2"x[illegible]x3'-8 7/8	[illegible]
	DUS-2	[illegible]	3 1/2"x3 1/2"x3/8"x5'-6 7/8	[illegible]
CONNECTION BAR	CB1	4	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ⒸⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

DETAIL "C"

SECTION E E

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

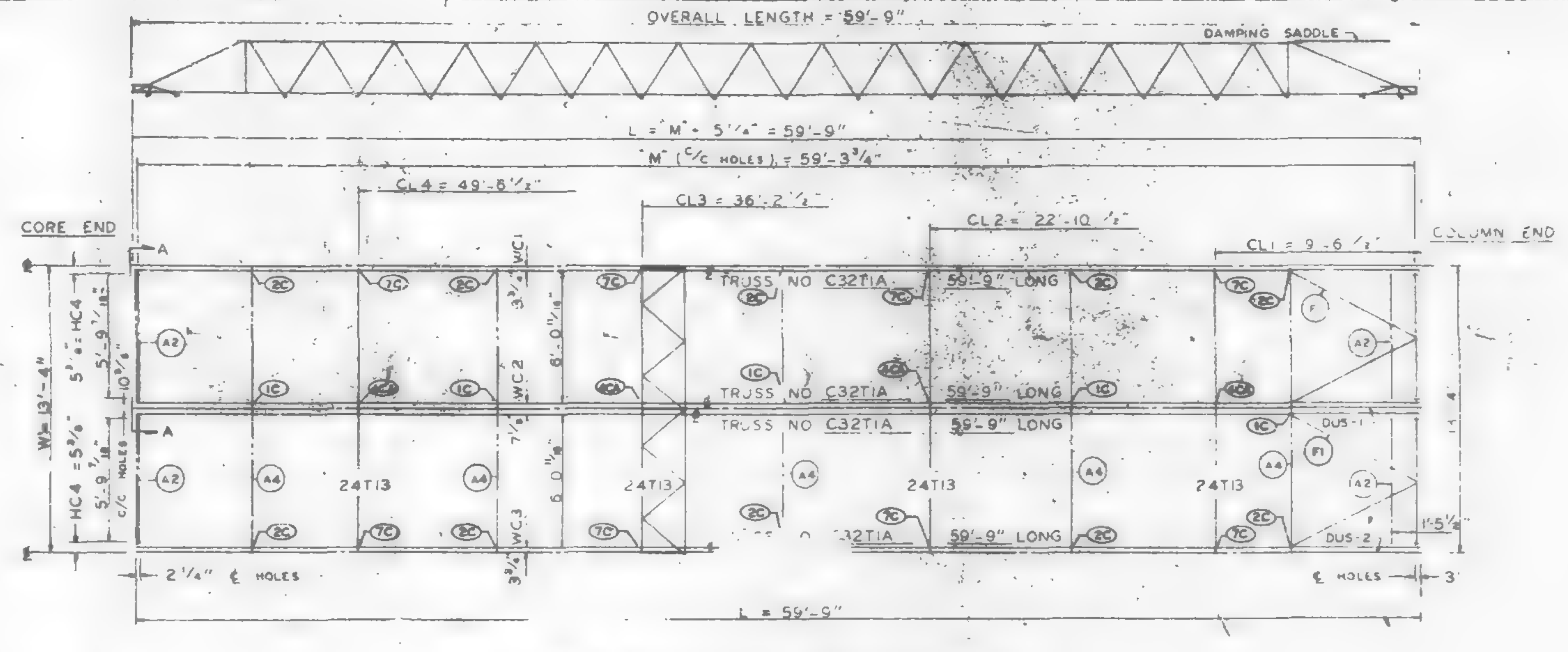
REF DRWG
7-AB4-3,3,1 1-3-68
7-AB4-15,16 & 39 7-22-68
7-AB4-42 10-15-68
SA-124 10-11-68
7-AB3-2 1-3-68
7-AB1-2 7-22-68
7-AB2-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

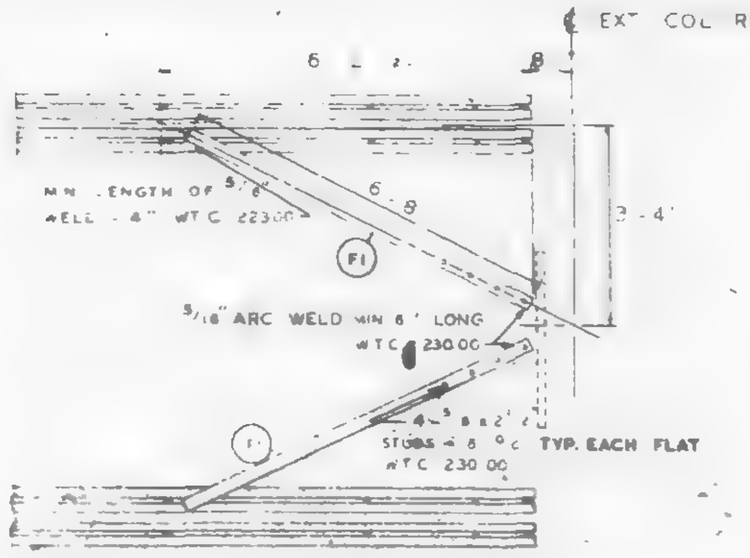
BLDG A FLOORS 74 N

PANEL 9RIP - 13'-4" x 57'-7"

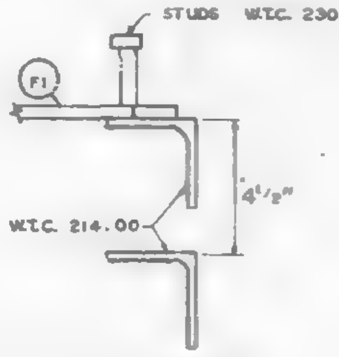
FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO.
7-22-68
11/1/68
CHECKED BY
7-22-68
FABRICATION CONT. NO. 221
SHEET FP 9RIP


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-5 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
TRUSS NO C32T1A 59'-9" LONG
C32T1A 59'-9" LONG
24T13
A2
A4
2C
7C
1C
4C
F1
DUS-1
DUS-2
WC1
WC2
WC3
W = 13'-4"
HC4 = 5 3/8"
2 1/4" ¢ HOLES
¢ HOLES
L = 59'-9"

PANEL NO B1A SIZE 13'-4" x 59'-9"

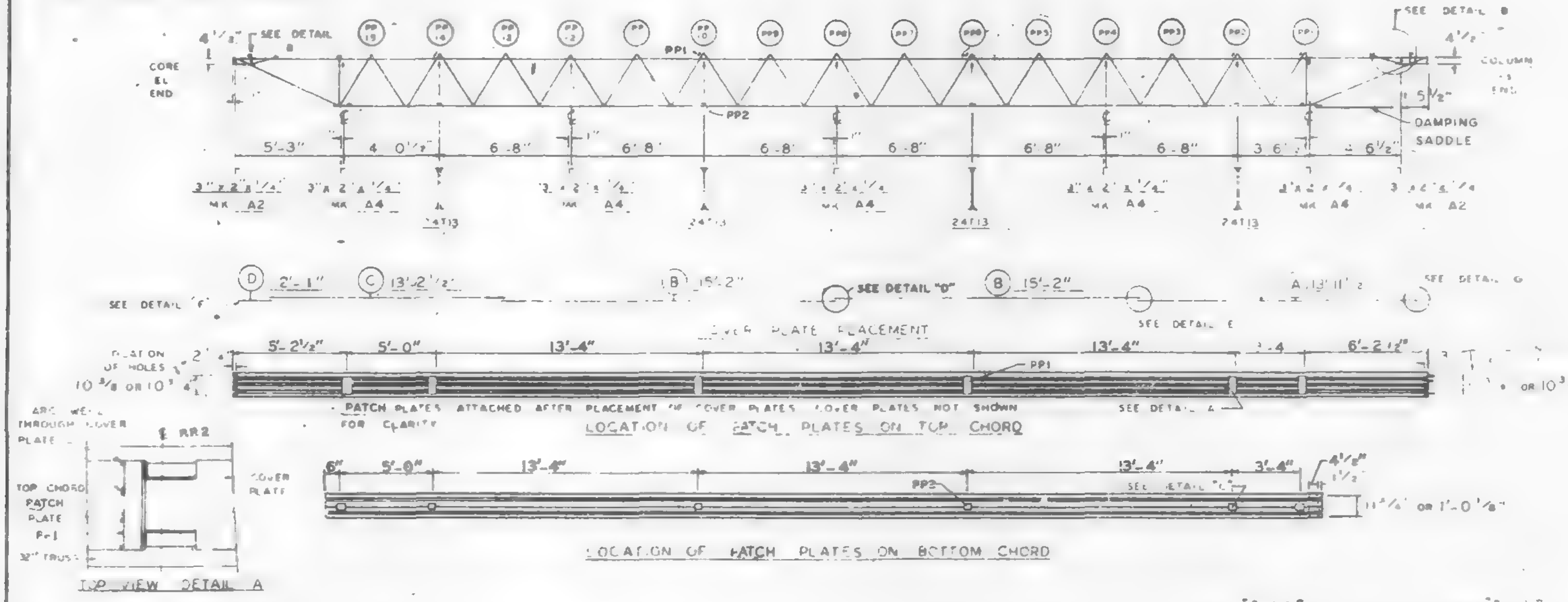

¢ EXT COL REF LINE
MIN LENGTH OF 5/16" WELD - 4" WTC 223.00
5/16" ARC WELD MIN 8" LONG WTC 230.00
STUDS 4 6" O.C. TYP. EACH FLAT WTC 230.00
F1

TYPICAL PLAN OF TOP CHORD COLUMN FOR DIAGONAL TRUSS BRACES PLACED UNDER DECK BY WTC 223.00

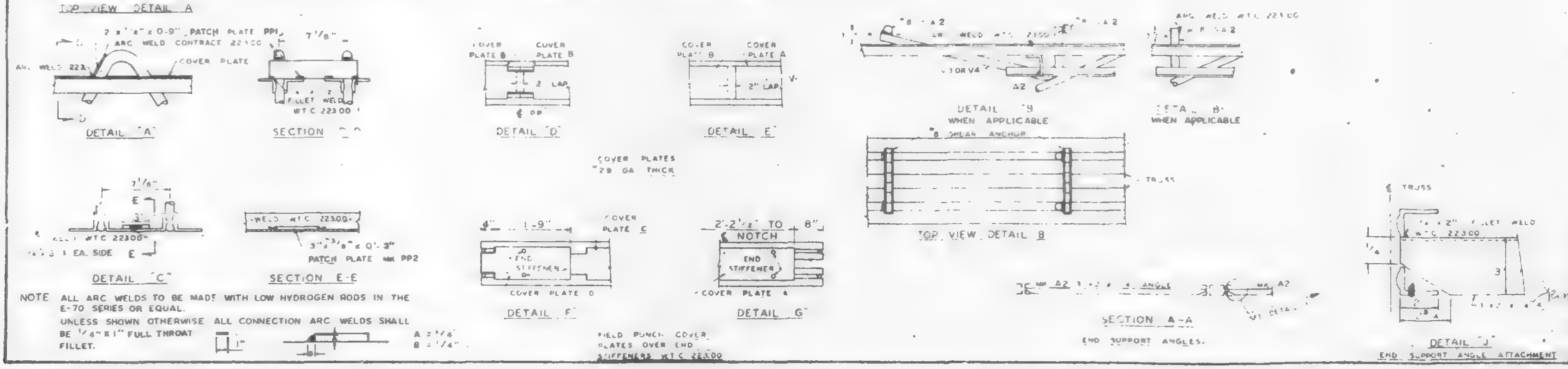

STUDS WTC 230.00
F1
WTC 214.00
4 1/2"

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

¢ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ¢ ON THE COLUMN CLIPS & BRACES


SEE DETAIL B
CORE EL END
COLUMN END
PP1
PP2
DAMPING SADDLE
5'-3"
6'-8"
3"x2"x1/4" MK A2
3"x2"x1/4" MK A4
24T13
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL F
SEE DETAIL G
COVER PLATE PLACEMENT
5'-2 1/2"
5'-0"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL A

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.


2"x1/4"x0-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
ARC WELD 223.00
COVER PLATE
DETAIL "A"
7 1/8"
FILLET WELD WTC 223.00
SECTION "B-B"
COVER PLATE B
COVER PLATE B
2" LAP
¢ PP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
COVER PLATES 28 GA THICK
DETAIL "B" WHEN APPLICABLE
#8 SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
WELD WTC 22300
EA. SIDE
DETAIL "C"
WELD WTC 22300
3"x3/8"x0'-3"
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
MK A2
SECTION A-A
END SUPPORT ANGLES
¢ TRUSS
FILLET WELD WTC 223.00
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS-2		3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"φ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2"x3/8"x6 1/2"	ST 400
	P2	4	4 1/2"x.30"x0'-9"	ST 400
	P3	4	4 1/2"x.30"x1'-0"	ST 400

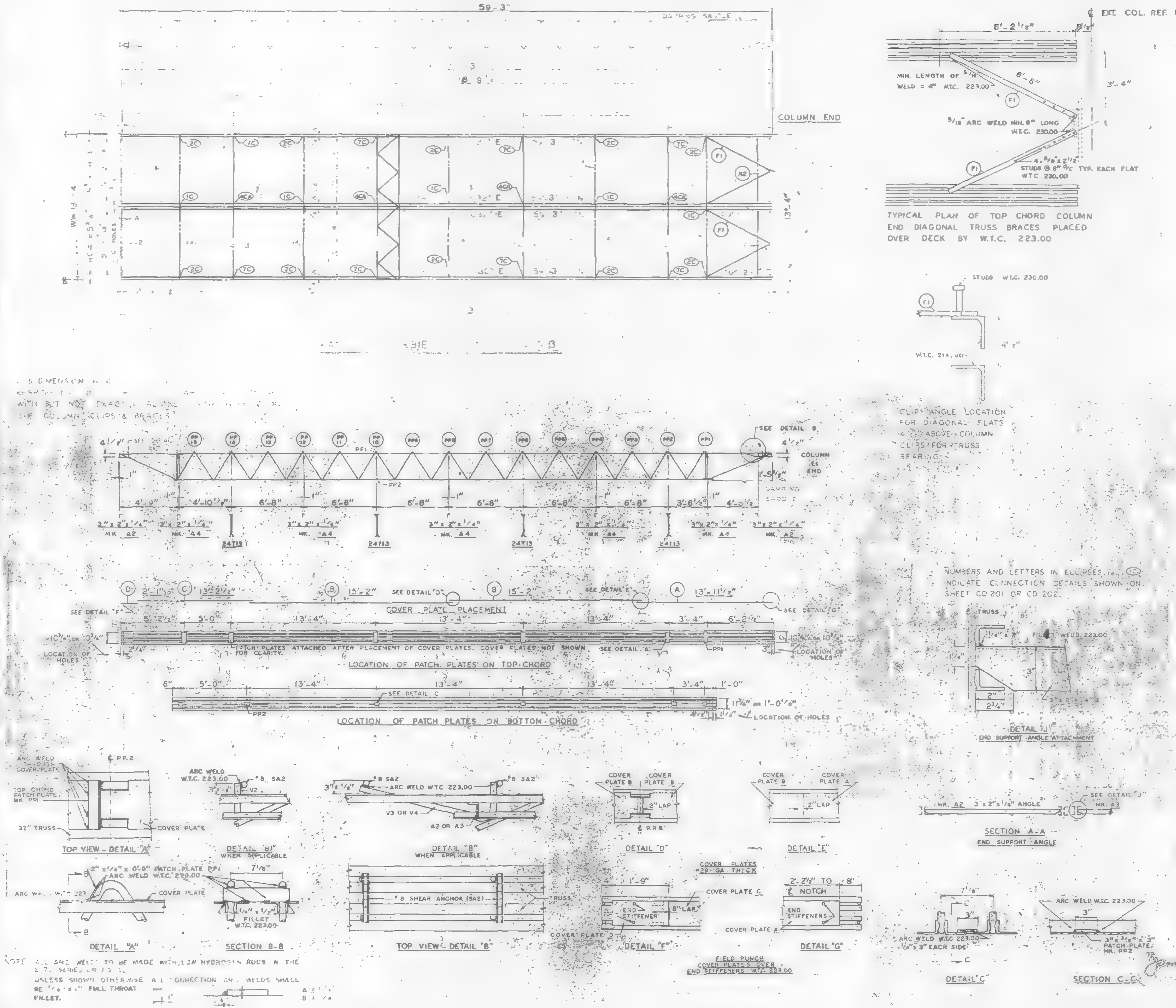
NO.	DATE	REVISION	BY
⚠1	7-15-68	GENERAL	T.M.C.

REF DRWG
7-AB4-3,3.1 & 30 1-3-68
7-AB4-15 & 16 5-6-68
7-AB4-42 4-1-68
4 6-20-67
7-AB3-2 3-68
7-AB-2 2-5-68
7-AB2-8 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60 66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE	
APPROVED FOR FABRICATION W. FAT FOR PONYA DATE 8/16/68	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY [redacted] FOR FABRICATOR DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER	FABRICATION CONT WTC 221	SHEET NO FP B1A


59'-3"
COLUMN END
13'-4"
8'-2½"
℄ EXT. COL. REF. LINE
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223.00
6'-8"
3'-4"
5/16" ARC WELD MIN. 8" LONG W.T.C. 230.00
4-3/8"x2½" STUDS @ 8" O/C TYP. EACH FLAT W.T.C. 230.00
F1
A2
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL B
COLUMN ℄ END
PP1
PP2
4'-9"
4'-10½"
6'-8"
3'-6½"
4'-5½"
1'-5½"
3"x2"x¼" MK. A2
3"x2"x¼" MK. A4
24T13
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
2'-1"
13'-2½"
15'-2"
13'-11½"
5'-2½"
5'-0"
13'-4"
3'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL A
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL C
1'-0"
11¾" or 1'-0⅛"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
NUMBERS AND LETTERS IN ELLIPSES, i.e. (2C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
TRUSS
FILLET WELD 223.00
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK. A2
3"x2"x¼" ANGLE
SEE DETAIL "J"
MK. A3
SECTION A-A
END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
#8 SA2
DETAIL "B1" WHEN APPLICABLE
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE A
DETAIL "E"
2" x ¼" x 0'-9" PATCH PLATE PP1
ARC WELD W.T.C. 223.00
DETAIL "A"
7⅛"
¼" x 1⅛" FILLET W.T.C. 223.00
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TOP VIEW - DETAIL "B"
COVER PLATES #29 GA. THICK
1'-9"
COVER PLATE C
END STIFFENER
8" LAP
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2'-2½" TO 8'
NOTCH
END STIFFENERS
COVER PLATE A
DETAIL "G"
ARC WELD W.T.C. 223.00
¼" x 3" EACH SIDE
DETAIL "C"
ARC WELD W.T.C. 223.00
3" x ⅜" x 2⅝" PATCH PLATE MK. PP2
SECTION C-C
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

PATCH PLATES	PP1	12		ST 400
	PP2	12	3"	ST 400
COVER PLATES				
		16	2" x 1½" x ¼" x 0'-6"	ST 400
		8	REBAR	ST 400
	C31	4	3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 6½"	ST 400
	P2	4	4½" x 39" x 0'-9"	ST 400
	P3	4	4½" x 39" x 1'-0"	ST 400

1	7-15-68	GENERAL	T.W.C.
NO	DATE	REVISION	BY

BLDG A FLOORS 0-11 (NORTH & SOUTH)

LACLEDE STEEL COMPANY

DETAIL DRAWING NO

DRAWN BY

DATE FEB 24, 1968

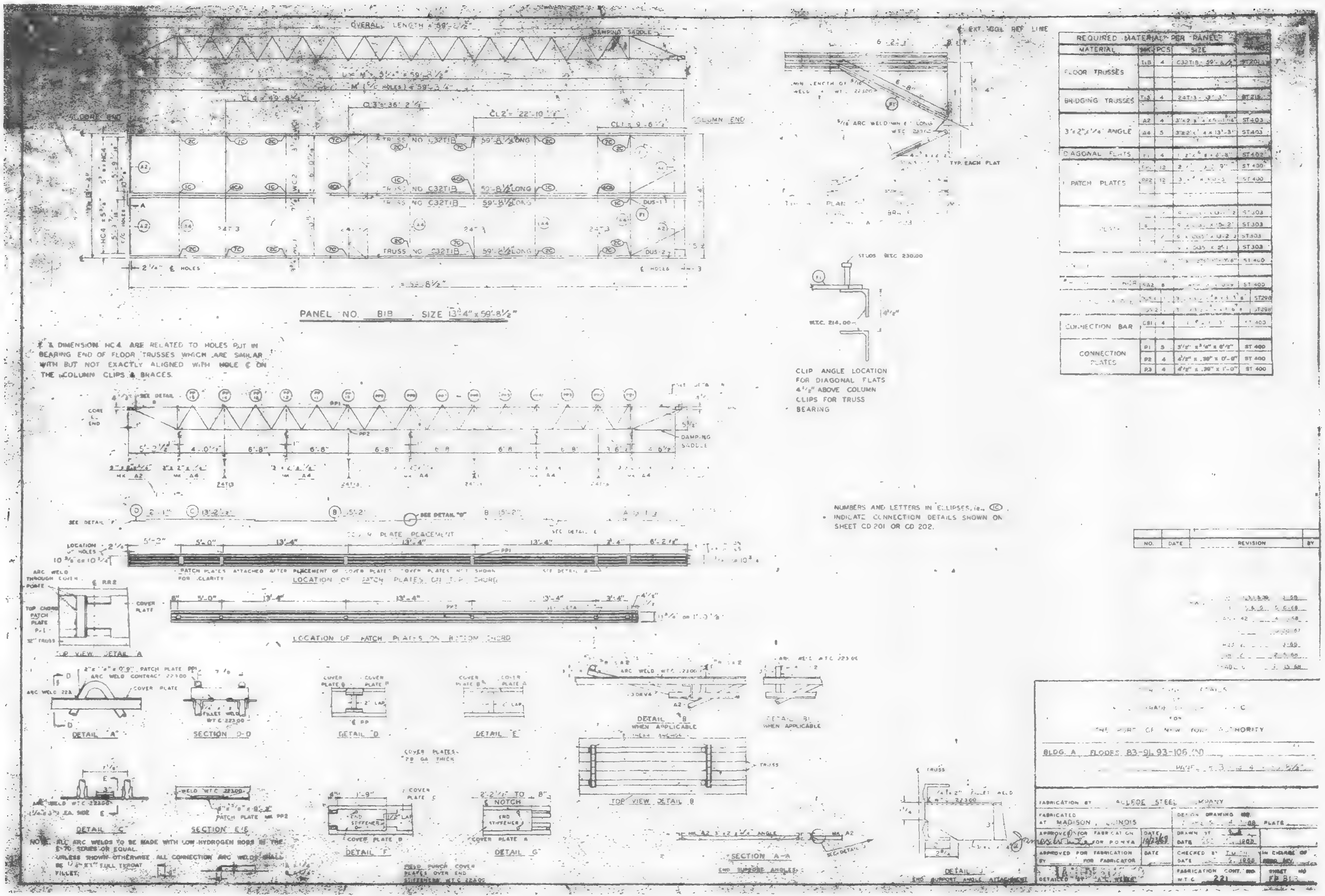
CHECKED BY

DATE FEB 24, 1968

APPROVED FOR FABRICATION 8/16/68

LACLEDE STEEL CO.

SHEET NO 241 FD BIE



OVERALL LENGTH 59'-8 1/2"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-8 1/4"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
TRUSS NO. C32T1B 59'-8 1/2" LONG
24T13
DUS-1
DUS-2
2 1/4" ℄ HOLES
PANEL NO. B1B SIZE 13'-4" x 59'-8 1/2"
CORE ℄ END
SEE DETAIL "F"
PP1
PP2
5'-2 1/2"
4'-0"
6'-8"
MK A2
MK A4
24T13
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
ARC WELD THROUGH COVER PLATE
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES 18 GA THICK
ARC WELD W.T.C. 22300 (1/4" x 3") EA. SIDE
DETAIL "C"
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
COVER PLATE
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8" NOTCH
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22400
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
5/16" ARC WELD W.T.C. 22300
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW-HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T1B	4	C32T1B - 59'-8 1/2"	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST219
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-[illegible]	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	[illegible]	ST402
PATCH PLATES	PP1	12	[illegible]	ST400
	PP2	12	[illegible]	ST400
[illegible]			[illegible]	ST303
			[illegible] x 13'-2"	ST303
		2	[illegible] x 13'-2"	ST303
			[illegible] x 2'-1"	ST303
[illegible]		6	[illegible]	ST400
[illegible]	SA2	8	[illegible]	ST400
[illegible]	DUS-1		[illegible]	ST298
	DUS-2		[illegible]	ST298
CONNECTION BAR	CB1	4	[illegible]	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO.

PLATE

APPROVED FOR FABRICATION James W. [illegible] FOR P.O.N.Y.A. DATE 10/23/68

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

DRAWN BY DATE 1968

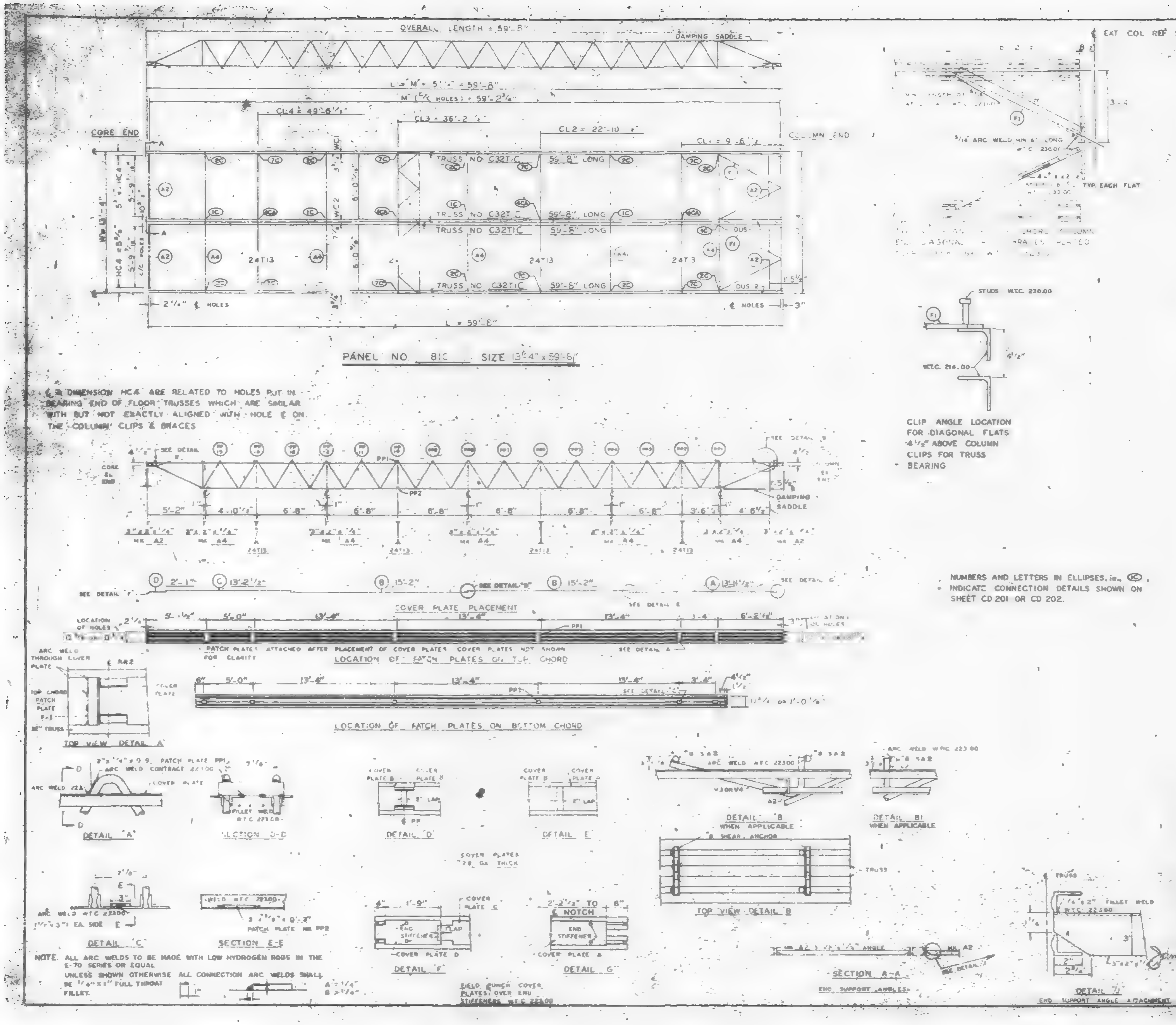
CHECKED BY DATE 5, 1968

IN CHARGE OF

DETAILED BY A.T. WEBB

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FB B1B


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
L = M" 5'-... = 59'-8"
M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-8 1/2"
CL3 = 36'-2 ..."
CL2 = 22'-10 ..."
CL1 = 9'-6 ..."
CORE END
COLUMN END
TRUSS NO. C32T C 59'-8" LONG
TRUSS NO. C32T C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
TRUSS NO. C32T1C 59'-8" LONG
24T13
L = 59'-8"
PANEL NO. B1C SIZE 13'-4" x 59'-8"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
COVER PLATES 28 GA THICK
€ COL REF LINE
STUDS W.T.C. 230.00
W.T.C. 214.00

€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1C	4	C32T1C - 59'-8"	ST201C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x 0135" x 13'-11 1/2"	ST303
	B	4	9" x 0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-6"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	8	3 1/8" x 3/8" x 8 1/8"	ST400
	P2	4	4 1/8" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

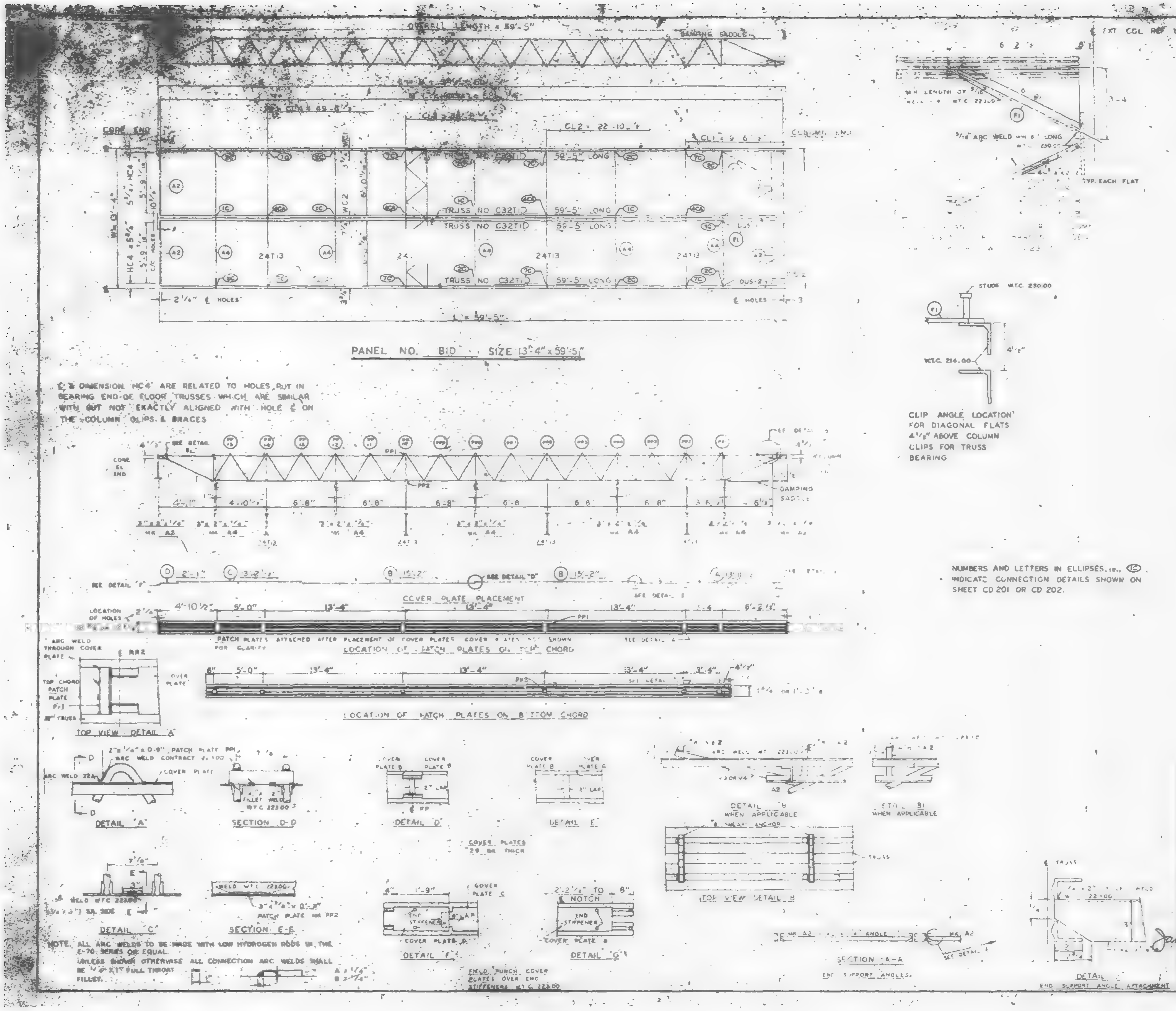
NO.	DATE	REVISION	BY

REF DRWG
7 AB4 3,3,1 & 39 — 3 68
7 AB4 15 & 16 — 5-6-68
7 AB4-42 — 4- -68
[illegible] — 2 22 67
7 AB3-2 — 3-3 68
7 AB1 2 — 2 16 68
7 AB2 8 — 2 15 68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79 91, 93-105 FL
PANEL B1C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 5 4-1-68 PLATE
APPROVED FOR FABRICATION James White FOR P O N Y A DATE 10/23/68
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE 1968
IN CHARGE OF
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. 78 B1C


OVERALL LENGTH = 59'-5"
DAMPING SADDLE
EXT COL REF LINE
CORE END
CL2 = 22'-10"
CL1 = 9'-6"
TRUSS NO C32T1D 59'-5" LONG
24T13
PANEL NO. B1D SIZE 13'-4" x 59'-5"
L = 59'-5"
℄ HOLES
5/16" ARC WELD
TYP EACH FLAT
STUDS WTC 230.00
WTC 214.00
4½"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CORE EL END
SEE DETAIL
PP1
PP2
DAMPING SADDLE
4'-11"
4'-10"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
6½"
3" x 2" x ¼"
MK A2
MK A4
SEE DETAIL "F"
D 2'-1"
C 3'-2½"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
COVER PLATE PLACEMENT
LOCATION OF HOLES
4'-10½"
5'-0"
13'-4"
13'-4"
13'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
COVER PLATE
TOP VIEW DETAIL "A"
2" x ¼" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT
COVER PLATE
ARC WELD
DETAIL "A"
FILLET WELD WTC 223.00
SECTION D-D
COVER PLATE B
2" LAP
DETAIL "D"
COVER PLATE A
DETAIL "E"
COVER PLATES 28 GA THICK
DETAIL "H" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B1" WHEN APPLICABLE
TRUSS
TOP VIEW DETAIL "H"
WELD WTC 222.00
(¼" x 3") EA SIDE
DETAIL "C"
WELD WTC 221.00
3" x ⅜" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2½" TO 8"
NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 222.00
A2
3" x 2" x ¼" ANGLE
SECTION A-A
END SUPPORT ANGLES
TRUSS
DETAIL
END SUPPORT ANGLE ATTACHMENT

℄ & DIMENSION "HC4" ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" @ K1" FULL THROAT FILLET.
A = ¼"
B = ¼"

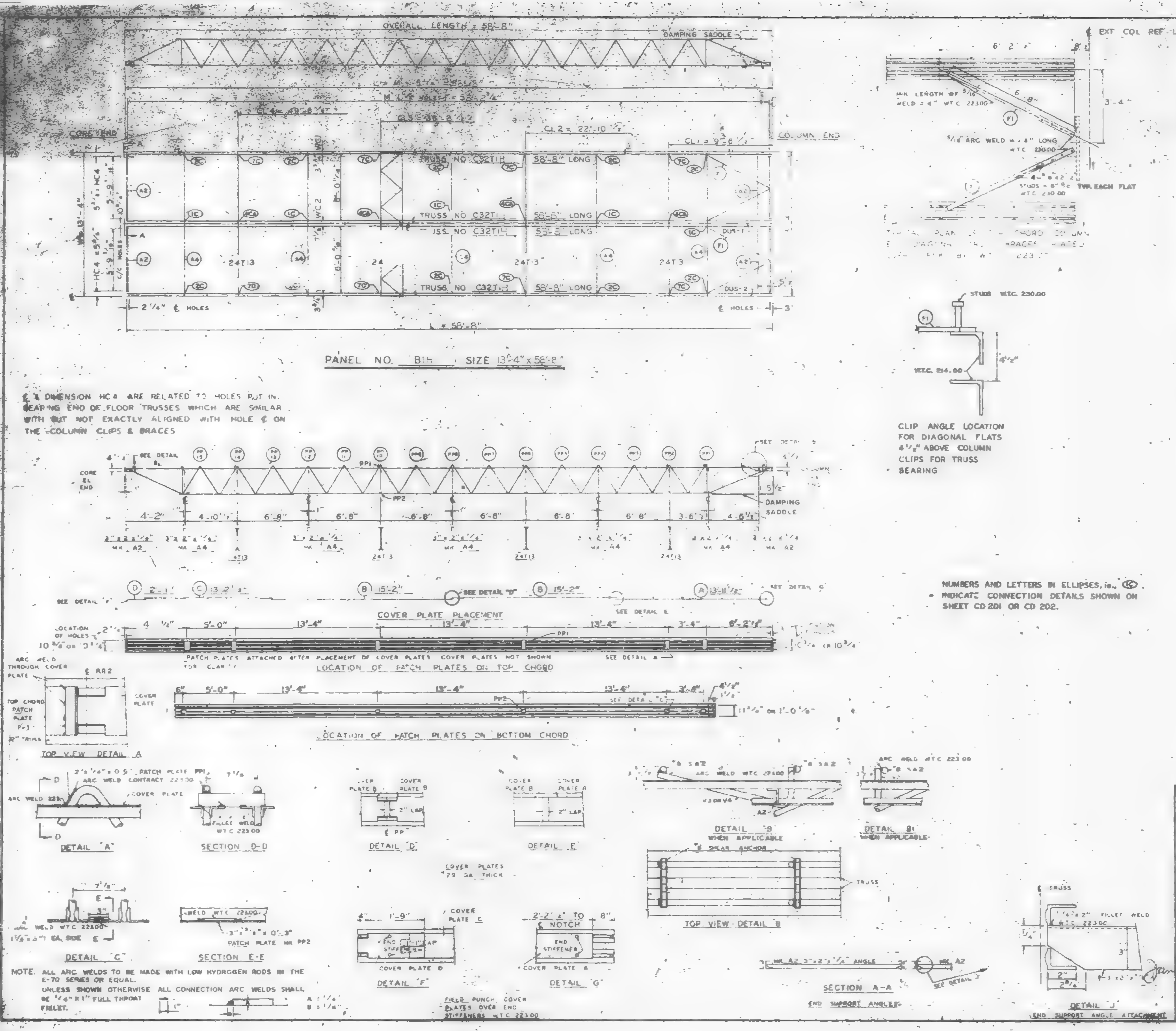
REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	4	C32T1D = 59'-5"	ST201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" x 5'-11 5/16"	ST403
	A4	5	3" x 2" x ¼" x 13'-8"	ST403
DIAGONAL FLATS	F1	4	1 1/8" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
[illegible] PLATES	A	2	9" x 0.35" x 3'-1½"	ST 303
	B	4	9" x 0.35" x 15'-2"	ST 303
	C	2	9" x 0.35" x 13'-2½"	ST 303
	D	2	9" x 0.35" x 2'-1"	ST 303
[illegible]	[illegible]	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0' =	ST 400
DAMPING SADDLE	DUS 4	1	3½" x 3½" x ⅜" x 3'-6 7/8"	ST298
	DUS 2	1	3½" x 3½" x ⅜" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3⅛" x ⅜" x 6½"	ST 400
	P2	4	4½" x .38" x 0'-8"	ST 400
	P3	4	4½" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 N
PANEL B1D 13'-4" x 59'-5"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7 483 S 4-1-68 PLATE
APPROVED FOR FABRICATION James White FOR PONYA — DATE 10/23/68	DRAWN BY — DATE OCT 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY — DATE OCT 1968 — IN CHARGE OF
LACLEDE STEEL CO. DETAILED BY A. C. WEBER	FABRICATION CONT NO. WTC 221 — SHEET NO. FB 810


OVERALL LENGTH ℄ 58'-8"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1H 58'-8" LONG
24T13
EXT COL REF LINE
PANEL NO. B1H SIZE 13'-4" x 58'-8"
STUDS WTC 230.00
W.T.C. 214.00
CORE ℄ END
PP1
PP2
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
COVER PLATES "29 GA THICK"
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN. BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1H	4	C32T1H - 58'-8"	ST201H
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST23
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x8'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	9"x 0.135" x 13'-11 1/2"	ST303
	B	4	9" x 0.135 x 15'-2"	ST303
	C	2	9 x 0.135" x 13'-2 1/2"	ST303
	D	2	9" x 0.135 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2"x1/4"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

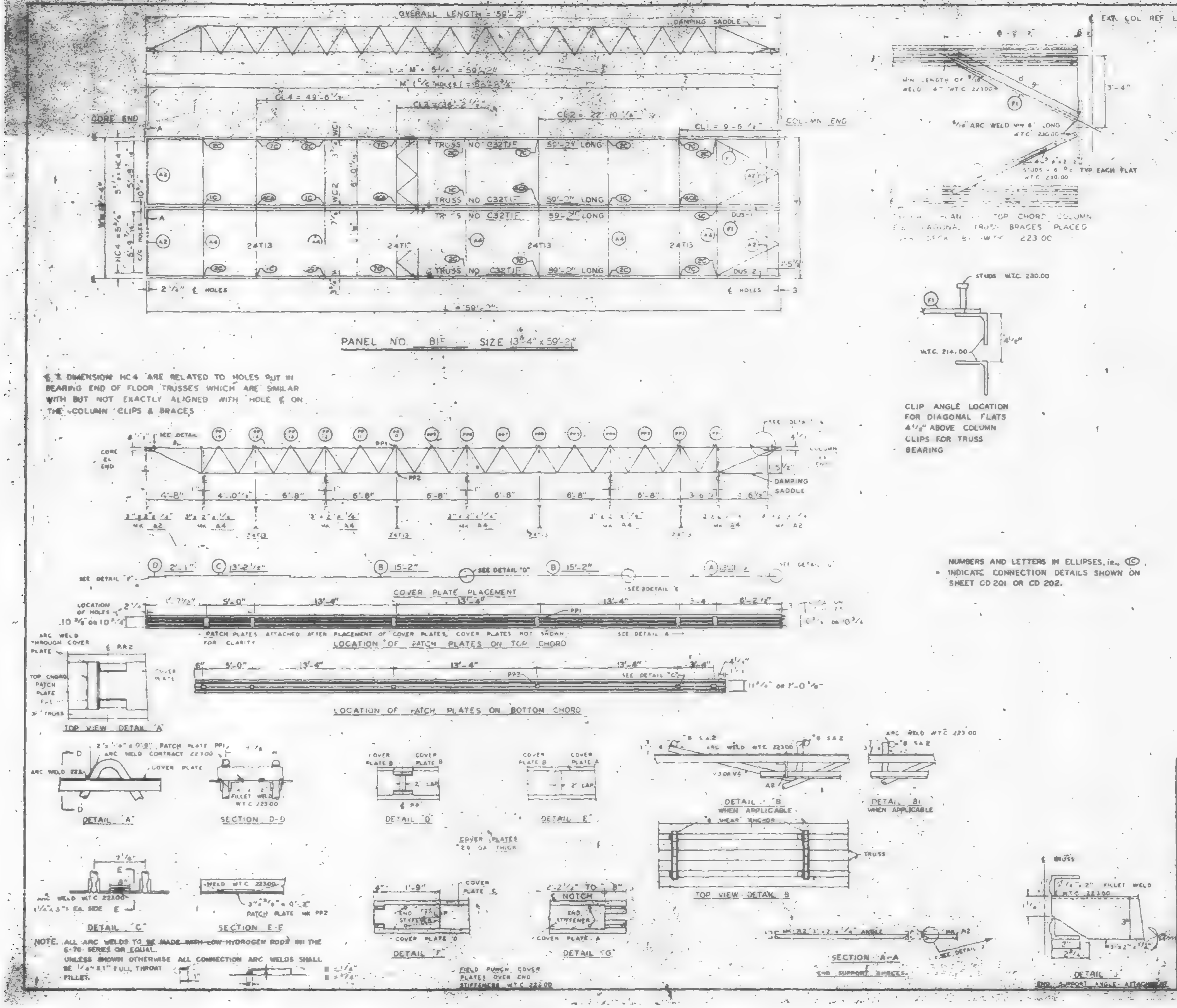
NO.	DATE	REVISION	BY

REF DRWG
7-AB4 33,1&39 1-3-68
7 AB4 -15 & 16 5-6-68
7 AB4 -42 4-1-68
SA 124 10-20 67
7-AB4 2 1-3 68
7-AB1-2 2-5 68
7-AB2 8 2 15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 79-80 (N)
PANEL B1H - 13'-4" x 58'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 4 1-68 PLATE
APPROVED FOR FABRICATION James White FOR P O N Y A DATE 10/23/68
DRAWN BY DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE 1968
IN CHARGE OF
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FB B1


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
L = M + 5 1/4" = 59'-2"
M (C/C HOLES) = 58'-8 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/8"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
24T13
WC1
WC2
HC4
DUS-1
DUS 2
2 1/4" ℄ HOLES
℄ HOLES
L = 59'-2"
SEE DETAIL B
DAMPING SADDLE
CORE ℄ END
COLUMN ℄ END
PP1
PP2
4'-8"
4'-0 1/2"
6'-8"
MK A2
MK A4
24T13
SEE DETAIL "F"
2'-1"
13'-2 1/2"
15'-2"
SEE DETAIL "D"
15'-2"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
1'-7 1/2"
5'-0"
13'-4"
13'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
SEE DETAIL "C"
11 1/2" OR 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
℄ PP2
TOP CHORD PATCH PLATE
TOP VIEW DETAIL "A"
2 1/2" x 3/8" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD
DETAIL "A"
FILLET WELD W.T.C 22300
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
℄ PP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
COVER PLATES 26 GA THICK
ARC WELD W.T.C 22300
1 1/4" x 3" EA. SIDE
DETAIL "C"
WELD W.T.C 22300
3" x 3/8" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 22300
#8 S.A.2
ARC WELD W.T.C 22300
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
MK A2 3" x 2" x 1/4" ANGLE
SECTION A-A
END SUPPORT BRACES
SEE DETAIL J
3/16 x 2" FILLET WELD W.T.C 22300
DETAIL J
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
MIN. LENGTH OF 3/16 WELD 4" W.T.C 22300
3/16 ARC WELD MIN 8" LONG W.T.C 23000
STUDS W.T.C 230.00 TYP. EACH FLAT
3'-4"
F1
PLAN ... TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED AFTER DECK BY W.T.C 223.00
STUDS W.T.C 230.00
W.T.C 214.00
4 1/2"

PANEL NO. B1F SIZE 13'-4" x 59'-2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e., ①C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS	SIZE	DRWG
FLOOR TRUSSES	T1F	4	C32T1F - 59'-2"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-1 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 200
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 200
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-8"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

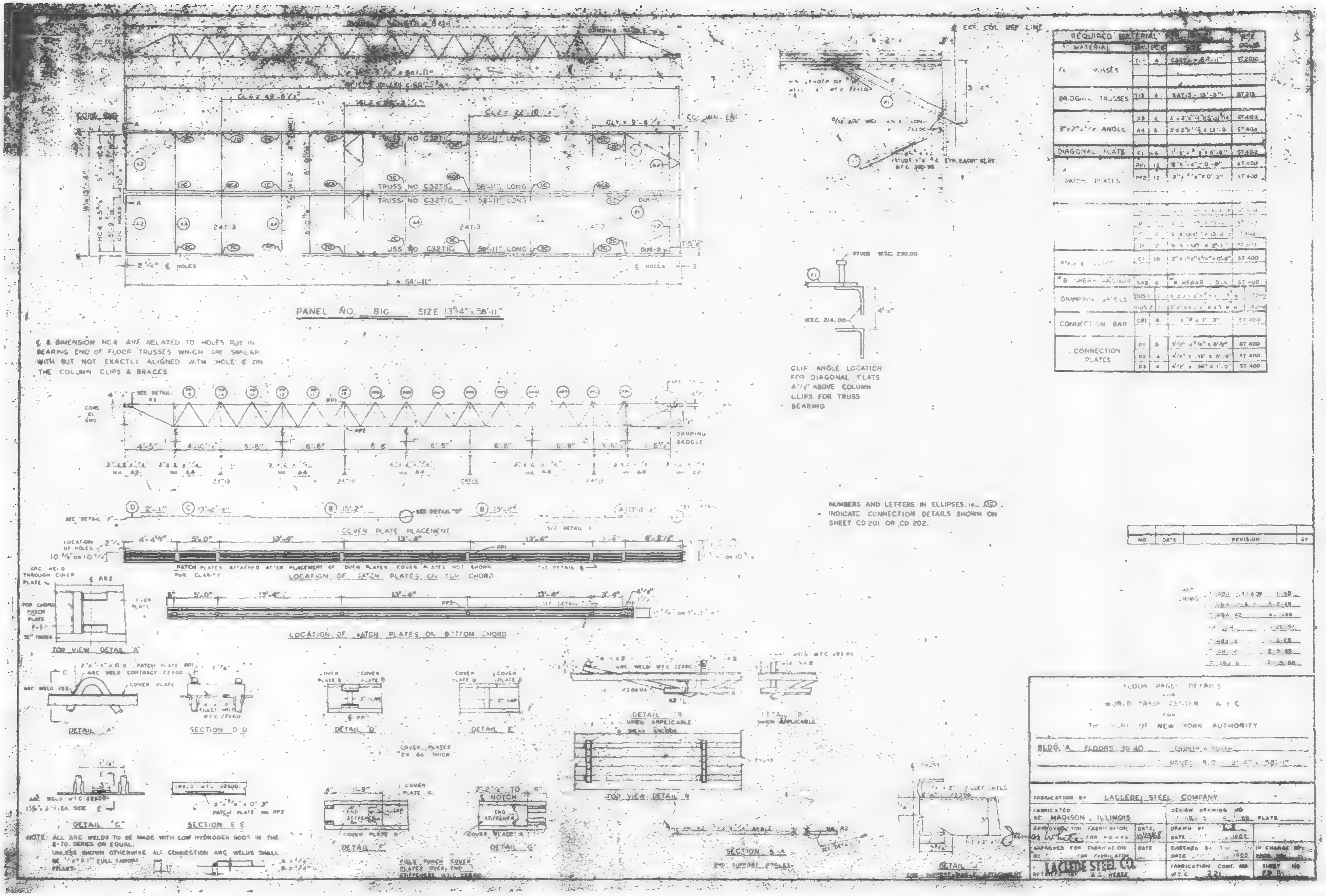
REF DRWG

7-AB4-3,3,1 & 29	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4 42	4-1-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-5-68
7-AB2-8	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 47-48(S) + 47-48, 70-71(N)
PANEL B1F - 13'-4" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 10/23/68
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE [illegible] 1968
IN CHARGE OF [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C 221
SHEET NO. B1F


CORE END
COLUMN END
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-11" LONG
TRUSS NO C32T1G 58'-11" LONG
24T13
L = 58'-11"
EXT. COL. REF LINE
STUDS WTC 230.00
WTC 214.00
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
DETAIL J

PANEL NO. B10 SIZE 13'-4" x 58'-11"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL				REF DWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G = 58'-11"	ST 201G
BRIDGING TRUSSES	T13	4	8AT13 - 13'-3"	ST 213
3"x2"x¼" ANGLE	A8	4	3 x 2"x¼"x5'-11 9/16	ST 403
	A4	5	3"x2"x¼"x 13'-3	ST 403
DIAGONAL FLATS	F1	4	1½"x⅝"x 5'-8"	ST 402
PATCH PLATES	PP1	12	3"x¾"x0'-8"	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
	[illegible]	[illegible]	[illegible]	[illegible]
	B	[illegible]	[illegible] x 15'-2	ST [illegible]
	C	2	9 x .0135 x 13-2	ST 403
	D	2	9 x .135 x 2'-1"	ST 403
[illegible] CLIPS	C1	16	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	6	#8 REBAR - 0'-9	ST 400
DAMPING SADDLES	DUS-1	1	[illegible]	[illegible]
	DUS 2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	1"ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6⅛"	ST 400
	P2	4	4½" x .38" x 0'-0"	ST 400
	P3	4	4½" x 38" x 1'-0"	ST 400

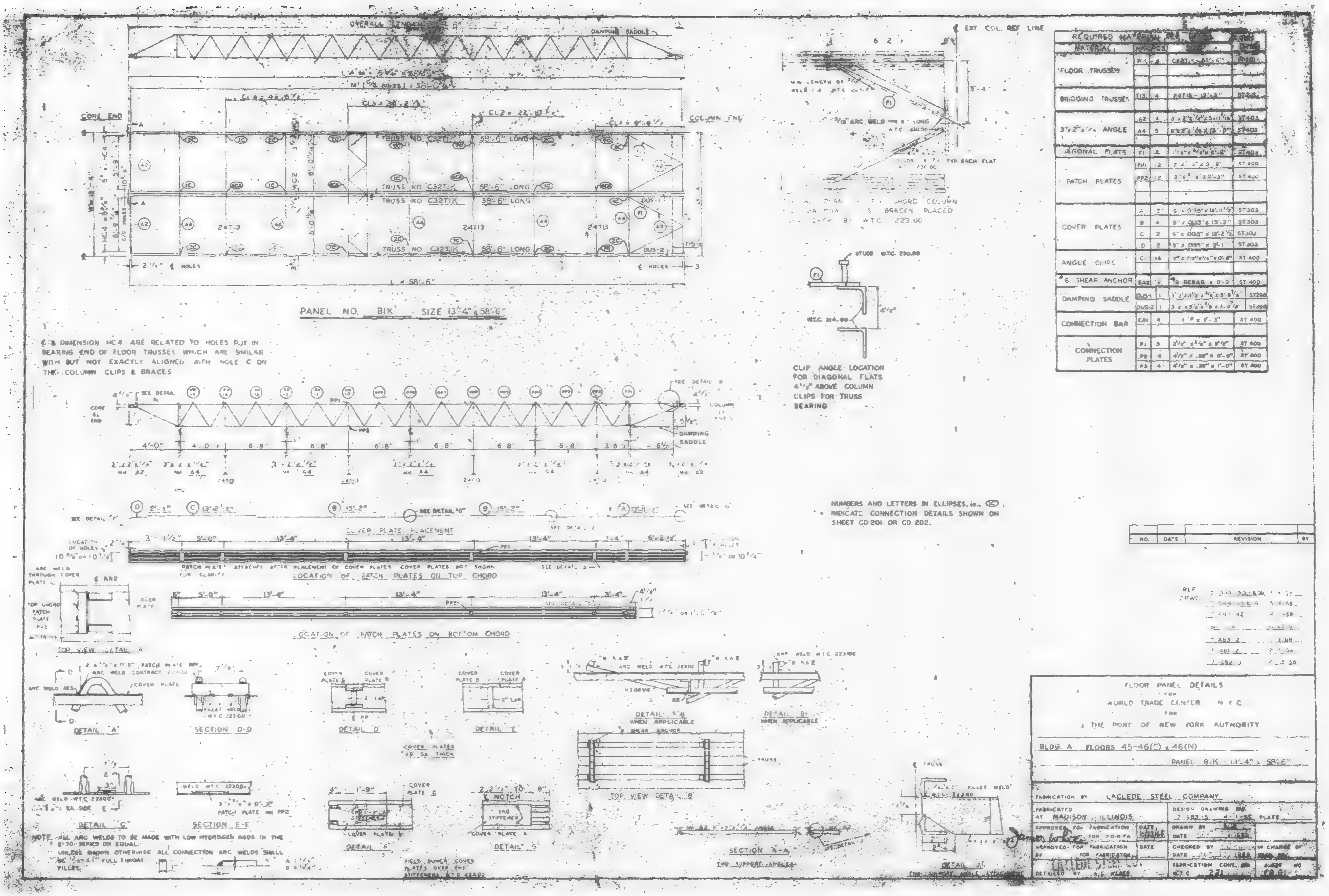
NO.	DATE	REVISION	BY

ABA 23,1&39 — 1-68
ABA 42 — 4-68
4 — 1-26-67
ABA 2 — 1-3-68
AB 2 — 2-5-68
ABA 9 — 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (NORTH & SOUTH)
PANEL B-G 13'-4" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO ABA 5 4-68 PLATE
APPROVED FOR FABRICATION FOR PONYA James White DATE 10/23/68
DRAWN BY
DATE 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY
DATE 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO WTC 221
SHEET NO FP B1


OVERALL LENGTH 58'-6"
DAMPING SADDLE
EXT COL REF LINE
CORE END
COLUMN END
TRUSS NO C32T1K 58'-6" LONG
24T13
DUS-1
DUS-2
L = 58'-6"
℄ HOLES
PANEL NO. B1K SIZE 13'-4" x 58'-6"
CORE ℄ END
SEE DETAIL B
PP1
PP2
DAMPING SADDLE
4'-0"
6'-8"
COVER PLATE PLACEMENT
SEE DETAIL "D"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 20 GA THICK
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
#8 SHEAR ANCHOR
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
SECTION A-A
END SUPPORT ANGLES
STUDS WTC 230.00
WTC 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie. Ⓘ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER [illegible]

MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	[illegible]	4	C32T1K x 58'-6"	[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	[illegible]
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5'-11 5/16"	ST403
	A4	5	3"x2"x¼"x13'-3"	ST403
DIAGONAL FLATS	F1	3	1½" x ⅝" x 6'-6"	ST402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.135" x 13'-11½"	ST303
	B	4	9" x 0.135" x 15'-2"	ST303
	C	2	9" x 0.135" x 13'-2½"	ST303
	D	2	9" x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1½" x ¼" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST298
	DUS-2	1	3½" x 3½" x ⅜" x 3'-3⅞"	ST298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3½" x ⅜" x 8½"	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	4	4½" x .38" x 1'-0"	ST 400

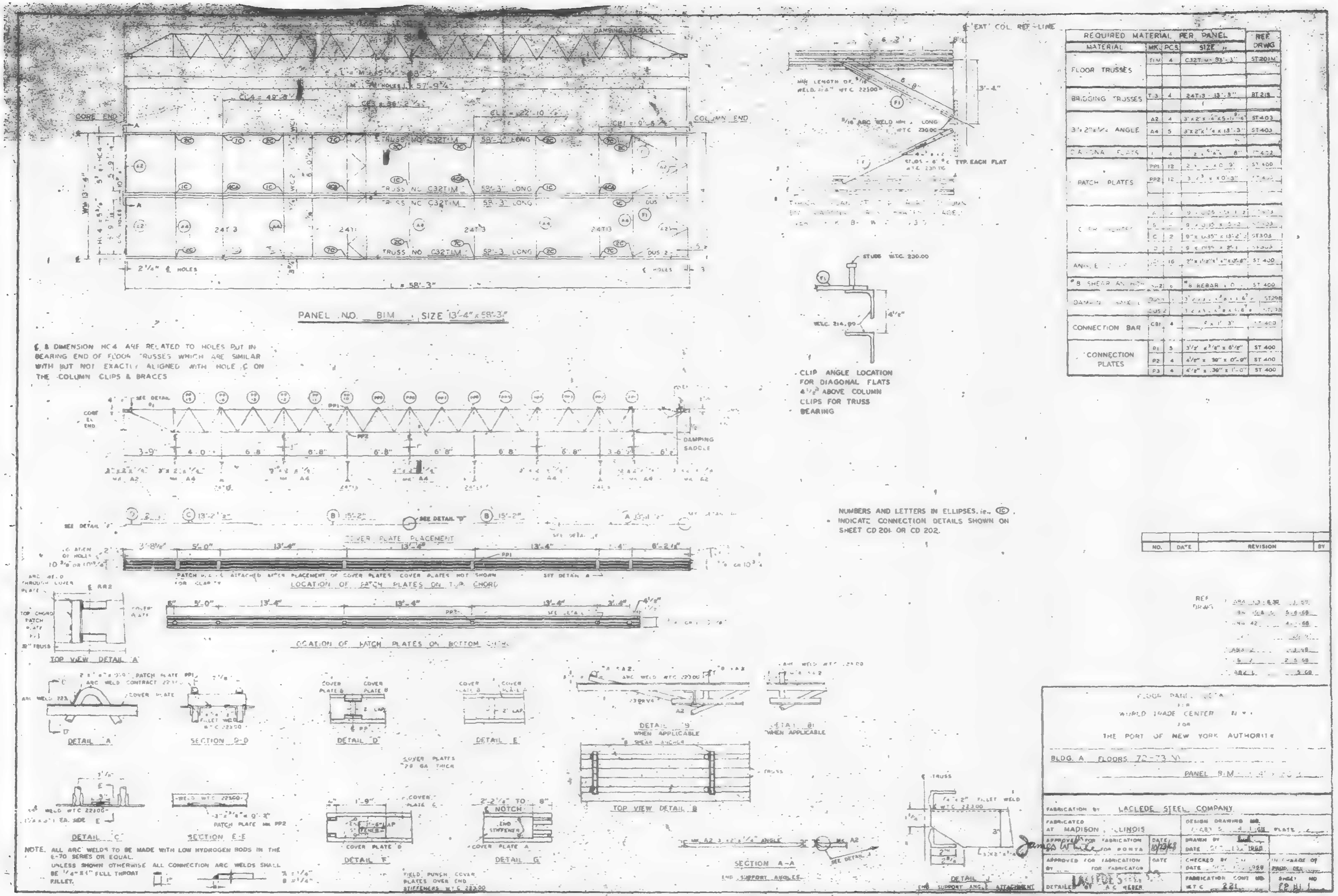
NO.	DATE	REVISION	BY

REF DRAWINGS
7 483 2 ... 68
7 481 2
7 482 3

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(S) & 46(N)
PANEL B1K 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 483-5 4-1-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 10/23/68	DRAWN BY [illegible] DATE OCT [illegible] 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE OCT [illegible] 1968	IN CHARGE OF [illegible]
DETAILED BY A.C. [illegible]		FABRICATION CONT. NO. WTC 221	SHEET NO [illegible]B1K


DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T1M 58'-3" LONG
24T13
L = 58'-3"
2 1/16" ℄ HOLES
℄ HOLES
EXT. COL. REF. LINE
STUDS - 6" ℃ TYP. EACH FLAT
STUDS WTC. 230.00
WTC. 214.00
4 1/2"
3'-4"
6'-8"
SEE DETAIL
CORE ℄ END
PP1
PP2
3'-9"
4'-0"
6'-8"
3'-6"
6'-1"
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
3'-8 1/2"
5'-0"
13'-4"
6'-2 1/8"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
WHEN APPLICABLE
DETAIL "B1"
WHEN APPLICABLE
TOP VIEW DETAIL B
COVER PLATES 20 GA. THICK
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 222.00
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT

PANEL NO. B1M SIZE 13'-4" x 58'-3"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓘ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M – 58'-3"	ST 201M
BRIDGING TRUSSES	T-3	4	24T13 – 13'-3"	BT 213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	[illegible]	4	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible] x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
[illegible]	A	2	9" x 0.035 [illegible]	[illegible]
	B	[illegible]	9" x 0.035" x 5'-2"	[illegible]
	C	2	9" x 0.035" x 13'-2"	ST 303
	D	2	9" x 0.035" x 2'-1"	[illegible]
ANGLE [illegible]	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	[illegible]	[illegible]	#8 REBAR x 0 [illegible]	ST 400
DAMPING SADDLE	DUS 1	[illegible]	[illegible]	ST 298
	DUS 2		[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

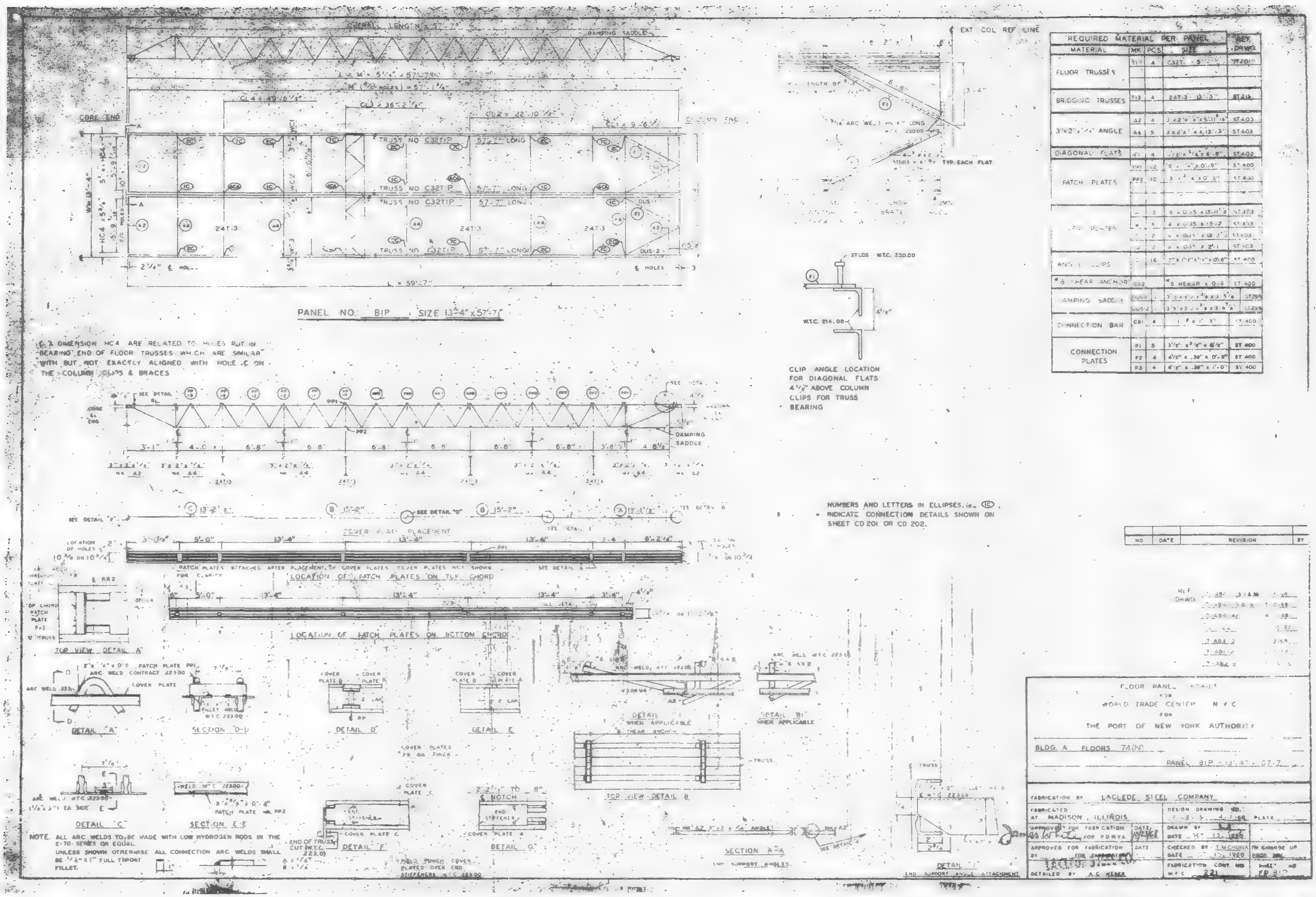
NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 [illegible]

PANEL B1M [illegible]

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. [illegible] PLATE [illegible]	
APPROVED FOR FABRICATION James White FOR PONYA	DATE 10/23/68	DRAWN BY [illegible] DATE [illegible] 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE [illegible] 1968	IN CHARGE OF PROD. [illegible]
DETAILED BY A. C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. FP B1 [illegible]


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CORE END
SHAFT END
TRUSS NO C32T1P 57'-7" LONG
24T3
L = 59'-7"
CL1 = 9'-6 1/4"
CL2 = 22'-10 1/4"
CL3 = 36'-2 1/4"
CL4 = 49'-6 1/4"
EXT COL REF LINE
STUDS W.T.C. 230.00
W.T.C. 214.00
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
TOP VIEW DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
COVER PLATES 7/8 GA THICK
3"x3/8"x0'-4" PATCH PLATE MK PP2
ARC WELD W.T.C. 223.00
END OF TRUSS CUT (W.T.C. 223.0)
A = 1/4"
B = 1/4

PANEL NO. B1P SIZE 13'-4" x 57'-7"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1P	4	C32T1P - 57'-7"	ST201P
BRIDGING TRUSSES	T13	4	24T3 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3x2x1/4x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9 x 0.35 x 13'-11 1/2	ST303
	B	4	9 x 0.35 x 15'-2	ST303
	C	2	9 x 0.35 x 13'-2 1/2	ST303
	D	2	9 x 0.35 x 2'-1	ST303
ANGLE CLIPS	C	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2		#8 REBAR x 0'-9	ST400
DAMPING SADDLE	DUS-1	1	3 1/2x3 1/2x3/8x3'-5 7/8	ST299
	DUS-2	1	3 1/2x3 1/2x3/8x3'-6 7/8	ST299
CONNECTION BAR	CB1	4	1"#x1'-3"	ST400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/8"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

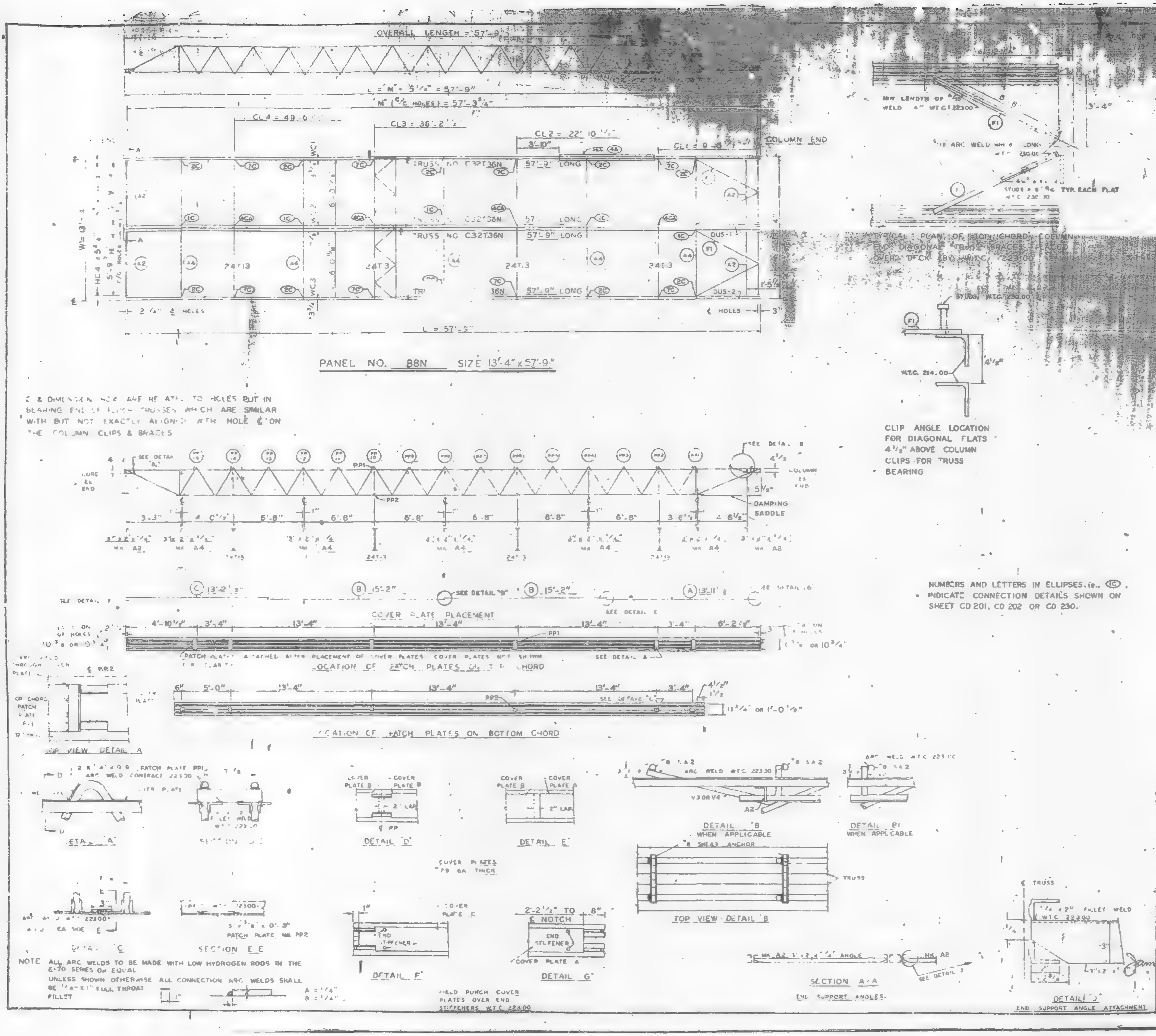
NO	DATE	REVISION	BY

REF. DRWG.
7-ABI-2
7-ABI-2

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74(N)
PANEL B1P - 13'-4" x 57'-7

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-B-5 4-1-68	PLATE
APPROVED FOR FABRICATION James White FOR PONYA	DATE 10/23/68	DRAWN BY DATE OCT 15, 1968	
APPROVED FOR FABRICATION BY FOR	DATE	CHECKED BY T. M. CHURA DATE 15, 1968	IN CHARGE OF PROD.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B1P


OVERALL LENGTH = 57'-0"
L = M" + 5½" = 57'-9"
M" (C/C HOLES) = 57'-3¾"
CL4 = 49'-6"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-8"
3'-10"
SEE 4A
COLUMN END
TRUSS NO C32T36N 57'-9" LONG
C32T36N 57'-9" LONG
TRUSS NO C32T36N 57'-9" LONG
36N 57'-9" LONG
24T13
DUS-1
DUS-2
W = 13'-4"
L = 57'-9"
2¼" ℄ HOLES
℄ HOLES
PANEL NO. B8N SIZE 13'-4" x 57'-9"
SEE DETAIL "A"
CORE EL END
PP1
PP2
COLUMN EL END
SEE DETAIL B
DAMPING SADDLE
3'-3"
6'-8"
3'-6½"
4'-6½"
3"x2"x¼" MK A2
3"x2"x¼" MK A4
24T13
C 13'-2½"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 13'-11½"
SEE DETAIL G
SEE DETAIL E
COVER PLATE PLACEMENT
4'-10½"
3'-4"
13'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
SEE DETAIL C
11¾" or 1'-0½"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
PATCH PLATE PP1
ARC WELD CONTRACT 22300
DETAIL A
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL D
DETAIL E
COVER PLATES 20 GA THICK
#8 SA2
ARC WELD WTC 22300
V3 OR V4
A2
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL B
DETAIL C
3"x⅜"x0'-3" PATCH PLATE MK PP2
SECTION E-E
EA SIDE
END STIFFENER
COVER PLATE C
DETAIL F
2'-2½" TO 8" NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
MK A2 3"x2"x¼" ANGLE
SEE DETAIL J
SECTION A-A
END SUPPORT ANGLES
¼" x 2" FILLET WELD W.T.C. 22300
DETAIL J
END SUPPORT ANGLE ATTACHMENT
MIN LENGTH OF 5/16" WELD 4" W.T.C. 22300
F1
3'-4"
5/16 ARC WELD MIN 6" LONG W.T.C. 23000
STUDS 4 @ 8" O.C. TYP. EACH FLAT W.T.C. 230.00
TYPICAL PLAN OF TOP CHORD, COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK 8B W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 230.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET
A = ¼"
B = ¼"

[illegible] MATERIAL PER PANEL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T36N	4	C32T36N - 57'-9"	ST 236N
BRIDGING TRUSSES	T13	4	24T13 13'-5"	ST 213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5'-1 9/16"	ST 403
	A4	5	3"x2"x¼"x13'-3"	ST 403
DIAGONAL FLATS	F1	4	½"x5/8"x6'-6"	ST 402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	[illegible]x.0135"x13'-11½"	ST 303
	B	4	[illegible]x.0135"x15'-2"	ST 303
	C	2	[illegible]x.0135"x13'-2½"	ST 303
ANGLE CLIPS	CL	16	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3½"x3½"x3/8"x3'-3⅞"	ST 298
	DUS-2	1	3½"x3½"x3/8"x3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1⅛"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½"x3/8"x6½"	ST 400
	P2	4	4½"x.30"x0'-9"	ST 400
	P3	4	4½"x.30"x1'-0"	ST 400

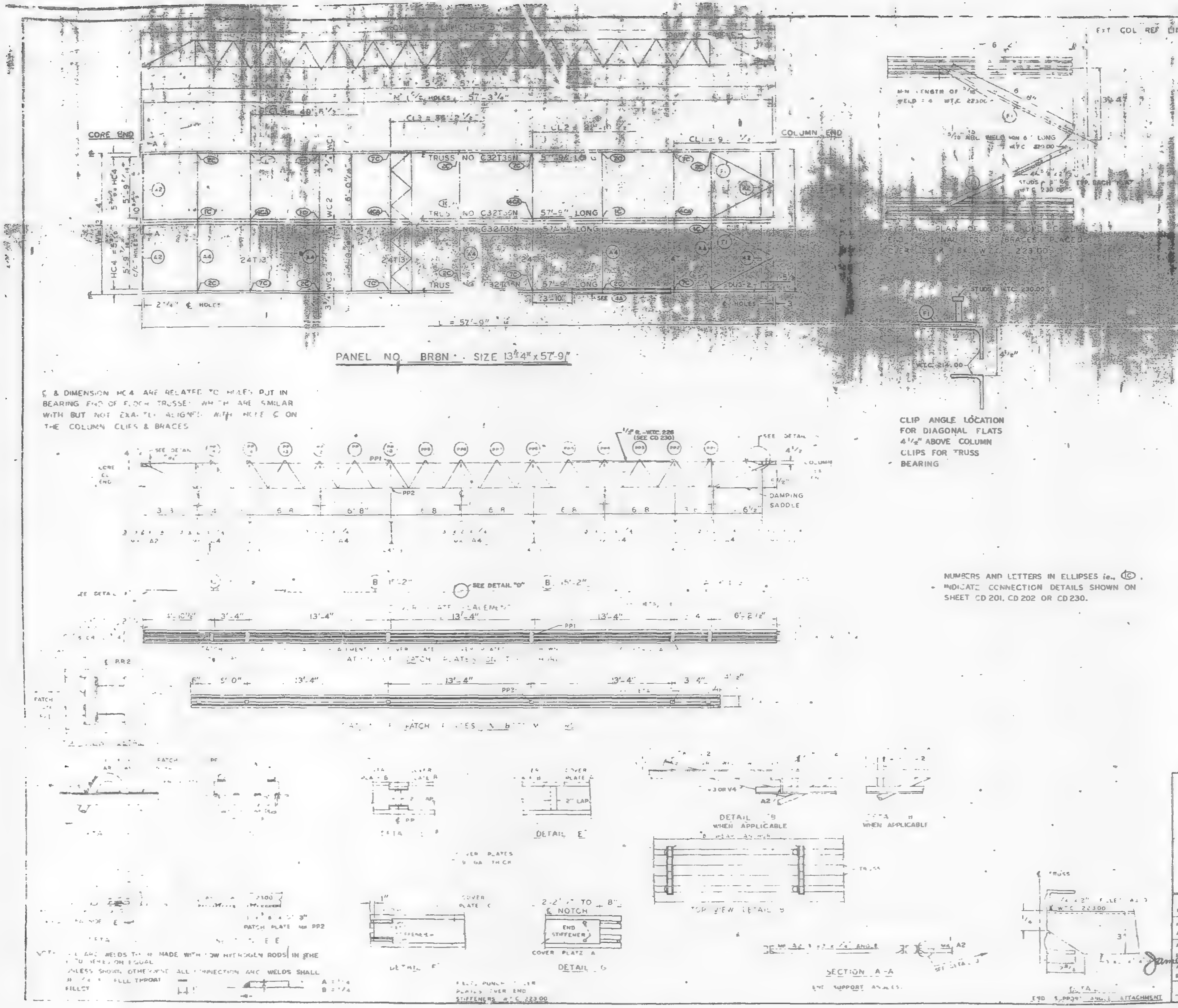
NO	DATE	REVISION	BY

REF DRWG
7-AB4-3 10-15-69
7-AB4-15,16,39 & 41 7-22-68
7-AB4-3.1 1-3-68
SA 24 1-6-69
7-AB3-34 1-6-69
7-AB1-32 1-6-69
7-AB4-8 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL B8N - 13'-4" x 57'-9"

FABRICATED BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-54	PLATE
APPROVED FOR FABRICATION James White FOR PONYA	DATE 4/22/69	DRAWN BY [illegible] DATE APRIL 1, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 1, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY [illegible]		FABRICATION CONT NO. W.T.C. 221	SHEET NO FP B8N


EXT COL REF LINE
CORE END
COLUMN END
TRUSS NO C32T35N 57'-9" LONG
TRUSS NO C32T36N 57'-9" LONG
24T13
DUS-2
L = 57'-9"
MIN LENGTH OF 3/16 WELD = 4 WTC 22300
5/16 WELD ON 6" LONG WTC 22300
STUDS WTC 230.00
WTC 214.00
SEE DETAIL
COLUMN
DAMPING SADDLE
PP1
PP2
6'-8"
13'-4"
DETAIL E
DETAIL F
DETAIL G
DETAIL B WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
COVER PLATE A
END STIFFENER
2" LAP
PATCH PLATE
2'-2" TO 8" E NOTCH
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00

PANEL NO. BR8N SIZE 13'-4" x 57'-9"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 230.

NOTE: ... ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE ... UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL ... FULL THROAT FILLET

[illegible]				
DAMPING ... ANGLE	A			
DIAGONAL FLATS	FL			
PATCH PLATES	FP1			
	FP2			
COVER PLATES	A			
	B			
	C	2	9" x .DGS" x [illegible]	ST303
ANGLE CLIPS	CL	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO	DATE	REVISION	BY

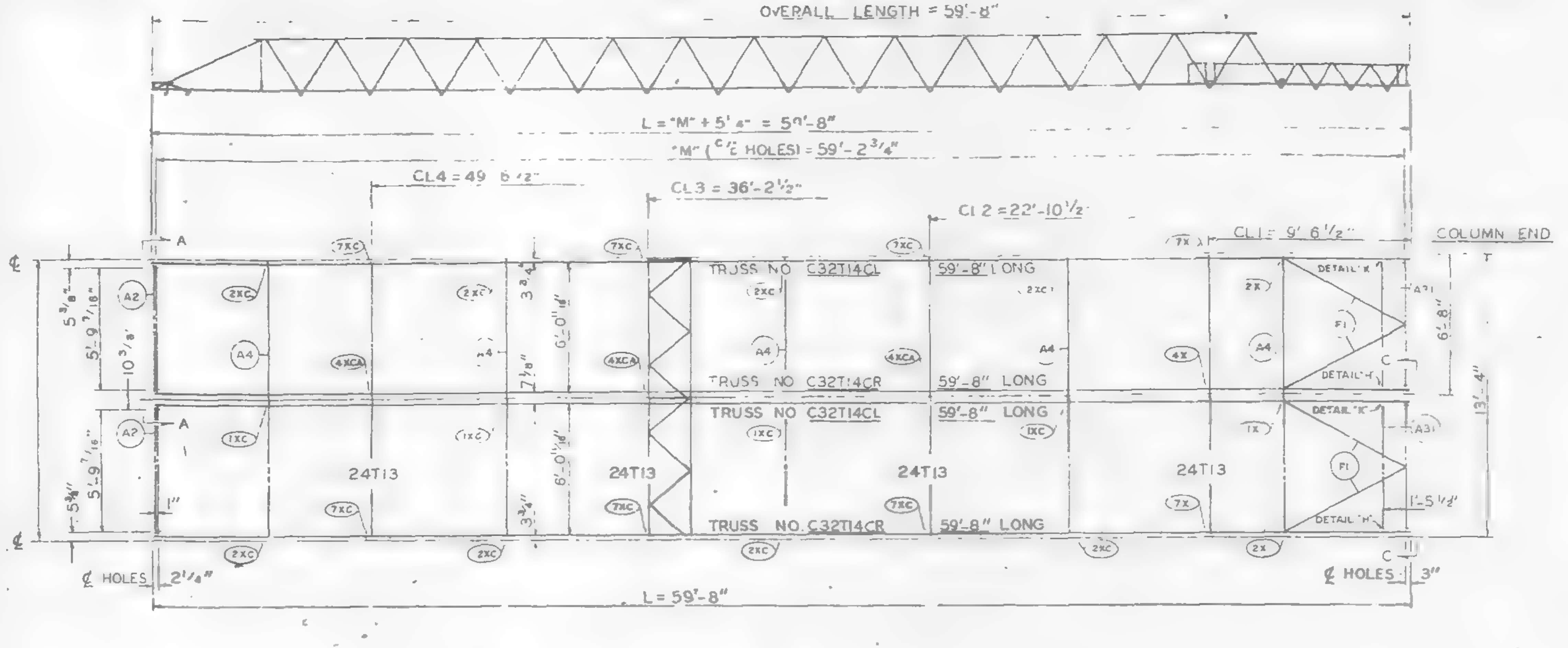
REF DWG

... 394 3	10-15-68
... 394 15,18,39 & 41	7-22-68
... 394 3.1	1-3-68
...	1-6-69
... 493 55	1-6-69
... 32	1-6-69
... 8	7-22-68

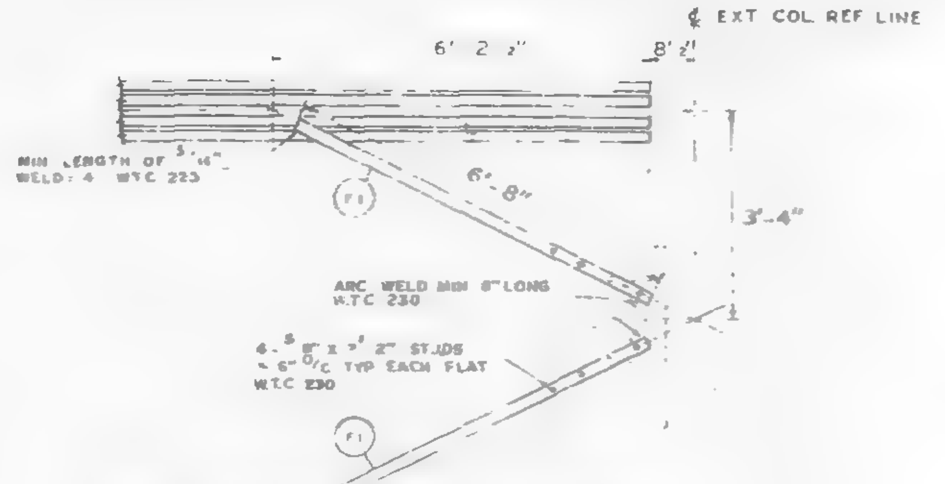
FLOOR PANEL DETAIL
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL BR8N 13'-4" x 57'-9"

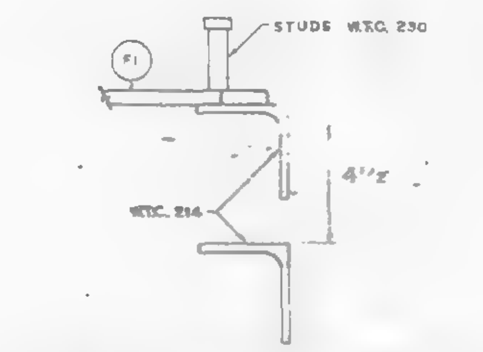
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 483-55 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 4/22/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DRAWN BY DATE APRIL 1, 1969
CHECKED BY TM CHURA DATE APRIL 1, 1969
IN CHARGE OF PROD. DEV.
DETAILED ... AS NOTED
FABRICATION UNIT NO WT 221
SHEET NO FP BR8N


OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49' 6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9' 6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
24T13
A2
A4
A31
F1
DETAIL "K"
DETAIL "H"
2XC
7XC
4XCA
1XC
7X
2X
¢ HOLES 2 1/4"
¢ HOLES 3"
L = 59'-8"
13'-4"
6'-8"
1'-5 1/2"

PANEL NO. B2C SIZE 13'-4" x 59'-8"


¢ EXT COL REF LINE
6' 2 1/2"
6'-8"
3'-4"
MIN LENGTH OF 3/16" WELD: 4 W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
6 - 5/8" x 2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1

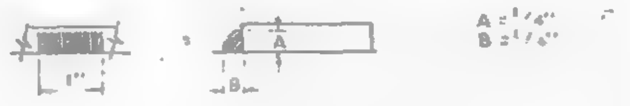
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

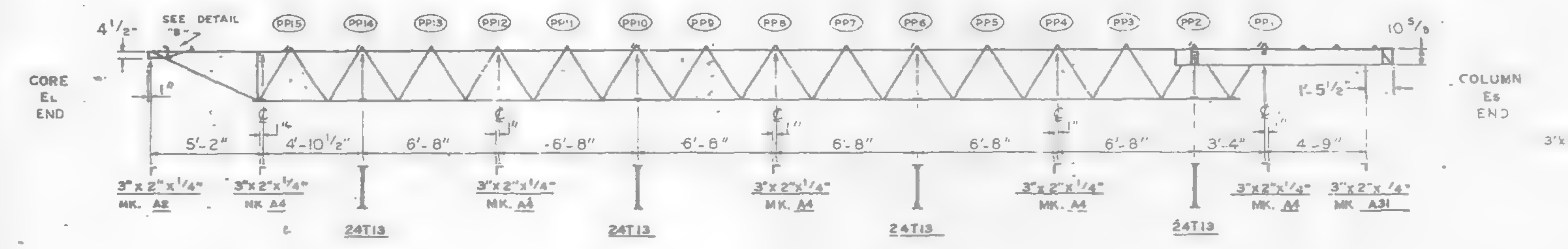

STUDS W.T.C. 230
F1
W.T.C. 214
4 1/2"

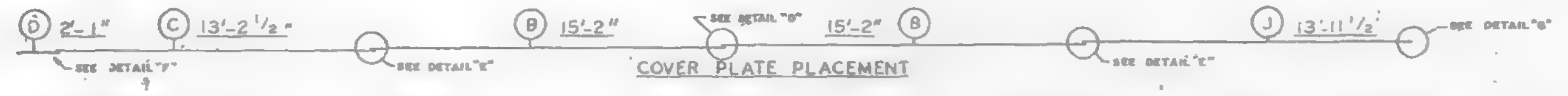
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	4	24T13 x 13-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4"x 5'-11"	ST 403
	A4	5	[illegible]	ST 403
	A31	2	[illegible]	ST 410
CLOSURE PLATES	PF1	2	3" x 1/4" x 0-2 3/8"	ST 402
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	4	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409

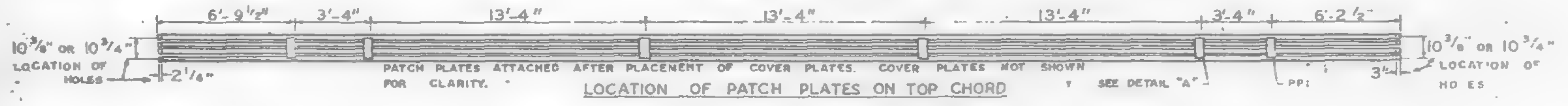
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.




4 1/2"
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
10 5/8"
CORE EL END
COLUMN EL END
5'-2"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
3"x 2"x 1/4" MK. A2
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A4
3"x 2"x 1/4" MK. A31
24T13
24T13
24T13
24T13

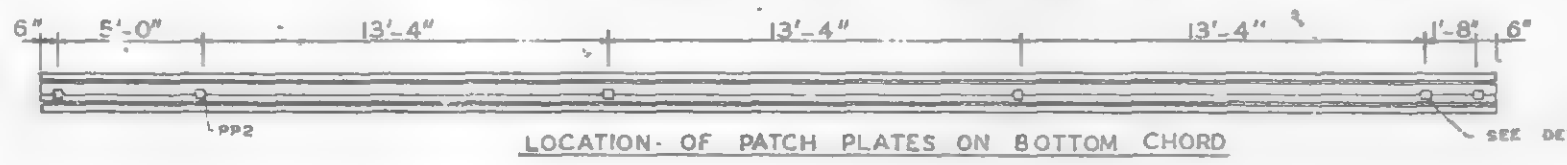

D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "B"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "G"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "E"

COVER PLATE PLACEMENT

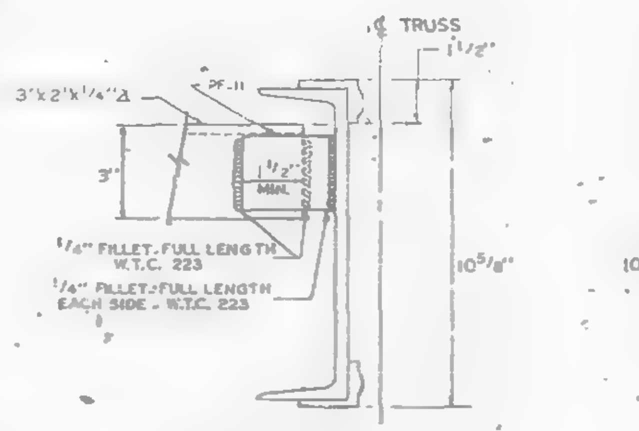

6'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
10 3/8" OR 10 3/4"
LOCATION OF HOLES
2 1/4"
3 1/4"
10 3/8" OR 10 3/4"
LOCATION OF HOLES
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

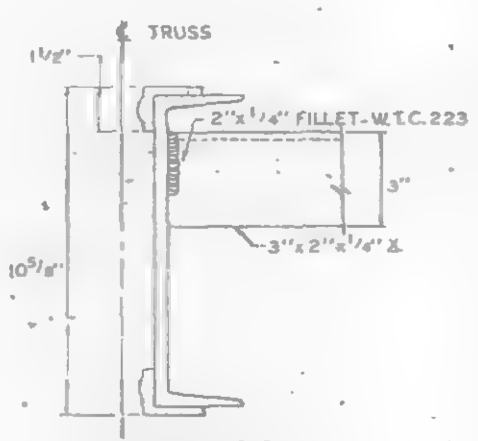
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
13'-4"
13'-4"
1'-8"
6"
PP2
SEE DETAIL "C"

LOCATION OF PATCH PLATES ON BOTTOM CHORD


¢ TRUSS
3"x 2"x 1/4" ∠
1 1/2"
3"
1/4" FILLET, FULL LENGTH W.T.C. 223
1/4" FILLET FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

DETAIL "K"
END SUPPORT ANGLE ATTACHMENT

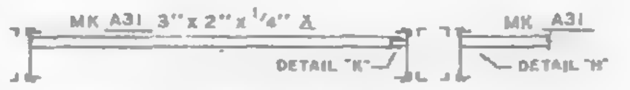

¢ TRUSS
1 1/2"
2"x 1/4" FILLET - W.T.C. 223
3"
3"x 2"x 1/4" ∠
10 5/8"

DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

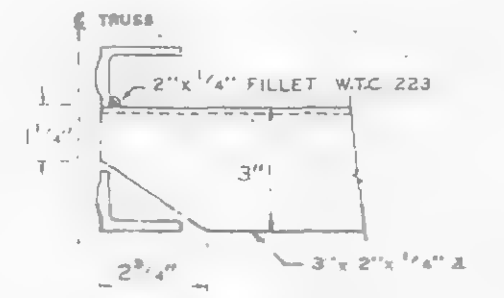
NO.	DATE	REVISION	BY

REF DRWG.

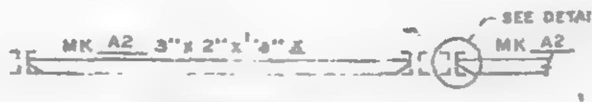
7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68


MK A31 3"x 2"x 1/4" ∠
DETAIL "K"
MK A31
DETAIL "H"

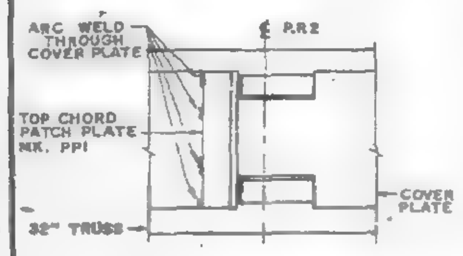
SECTION C-C
END SUPPORT ANGLE


¢ TRUSS
2"x 1/4" FILLET W.T.C. 223
1 1/2"
3"
2 3/4"
3"x 2"x 1/4" ∠

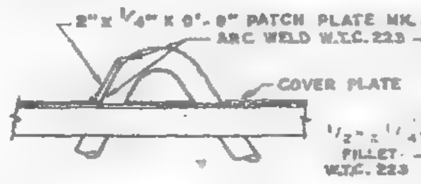
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


MK A2 3"x 2"x 1/4" ∠
SEE DETAIL "J"
MK A2
C-C

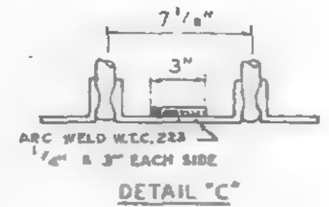
SECTION A-A
END SUPPORT ANGLE


ARC WELD THROUGH COVER PLATE
¢ PP2
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS

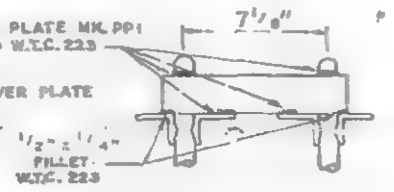
TOP VIEW - DETAIL "A"


2" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

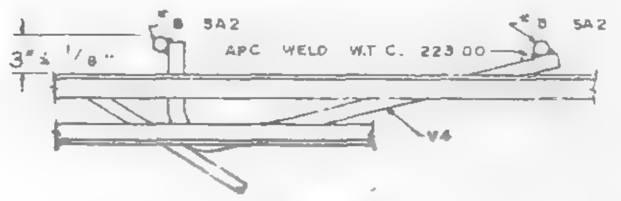
DETAIL "A"


7 1/8"
3"
ARC WELD W.T.C. 223
1/4" x 3" EACH SIDE

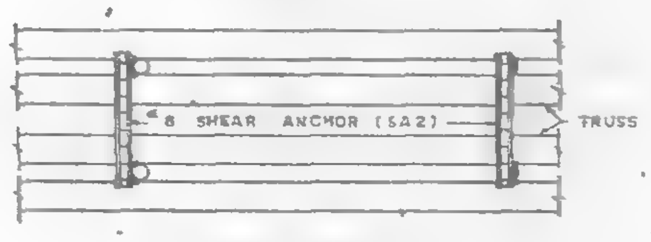
DETAIL "C"


7 1/8"
1/2" x 1 1/4" FILLET W.T.C. 223

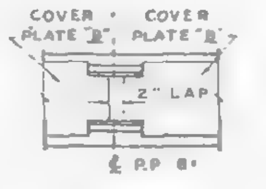
SECTION B-B


#8 SA2
#8 SA2
3" x 1/8"
ARC WELD W.T.C. 223.00
V4

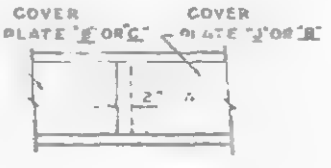
DETAIL "B"


#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

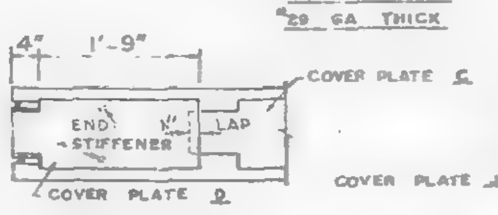

COVER PLATE "B"
COVER PLATE "B"
2" LAP
¢ PP 8

DETAIL "D"


COVER PLATE "C" OR "C"
COVER PLATE "J" OR "B"
2"

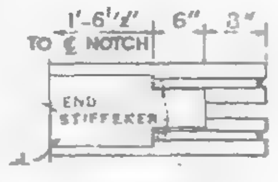
DETAIL "E"

COVER PLATES
29 GA THICK


4"
1'-9"
COVER PLATE C
END STIFFENER
LAP
COVER PLATE D

DETAIL "F"

FIELD PUNCH
COVER PLATES OVER
END STIFFENERS W.T.C. 223.00


1'-6 1/4"
6"
3"
TO ¢ NOTCH
END STIFFENER
COVER PLATE J

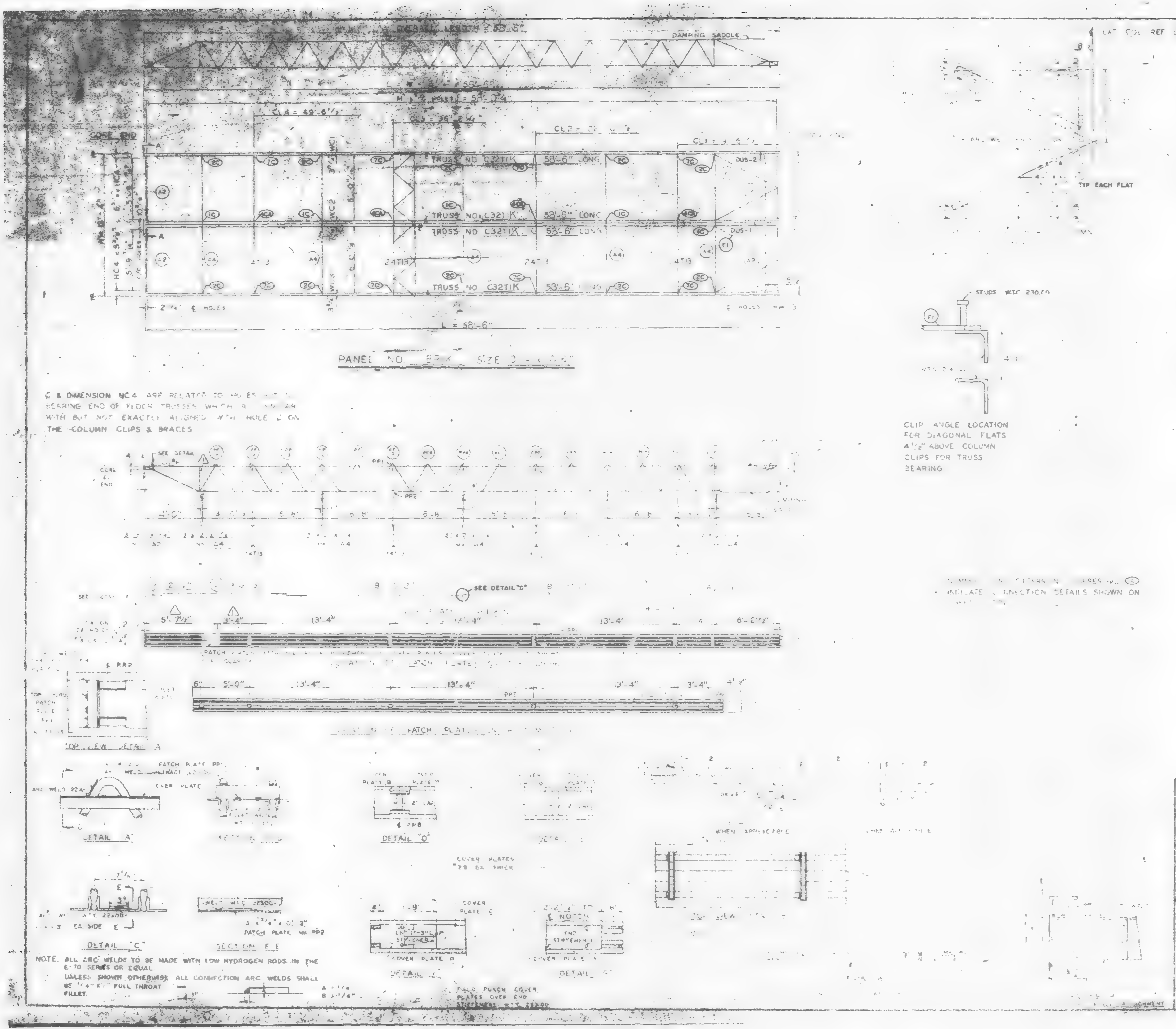
DETAIL "G"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL B2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-26	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 6/6/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B2C


OVERALL LENGTH = 58'-6"
DAMPING SADDLE
CORE END
CL4 = 49'-6½"
CL2 = 22'
TRUSS NO C32T1K 58'-6" LONG
TRUSS NO C32T1K 58'-6" LONG
TRUSS NO C32T1K 58'-6" LONG
TRUSS NO C32T1K 58'-6" LONG
DUS-2
DUS-1
24T13
L = 58'-6"
PANEL NO. B?K SIZE
SEE DETAIL
CORE END
PP1
PP2
SEE DETAIL "D"
5'-7½"
3'-4"
13'-4"
13'-4"
13'-4"
6'-2½"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
PATCH PLATE
TOP VIEW DETAIL A
ARC WELD
COVER PLATE
DETAIL A
DETAIL "D"
2" LAP
COVER PLATES 28 GA THICK
WHEN APPLICABLE
COVER PLATE D
DETAIL E
DETAIL F
END STIFFENER
DETAIL "C"
EA. SIDE
WELD W.T.C. 22300
3 x 3/8" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
A = 1/4
B = 1/4"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 22300
EXT COL REF LINE
TYP EACH FLAT
STUDS W.T.C. 230.00
F1

℄ & DIMENSION WC4 ARE RELATED TO HOLES [illegible] BEARING END OF FLOOR TRUSSES WHICH [illegible] WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

INDICATE CONNECTION DETAILS SHOWN ON

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1K	4	C32T1[illegible]	[illegible]
BRIDGING TRUSSES	T15	4	24T13 [illegible]	[illegible]
[illegible] ANGLE	A2	4	3"x2"x1/4" [illegible]	[illegible]
	A4	5	3"x2"x[illegible]	[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	2½" [illegible]	[illegible]
	PP2	12	3" x 3/8" x 0'-3"	ST 400
[illegible] PLATES	A	2	9" x 0.135" x 13'-11⅛"	ST 30[illegible]
	B	4	9" x 0.135" x 15'-8"	ST 303
	C	2	9 x 0.135" x 13'-2½"	ST303
	D	2	9" x 0.13 x 4'-1"	ST303
ANGLE CLIPS	C	16	2" x 1½" x 1/4" x 0'-8"	ST 400
[illegible] REBAR ANCHOR	[illegible]	5	#5 REBAR [illegible]	ST 400
DAMPING SADDLE	DUS 1	1	3½"x3½"x3/8"x3'-6⅞"	ST29[illegible]
	DUS 2		3½"x3½"x3/8"x3'-8⅞"	ST294
CONNECTION BAR	CB1	4	1⅛" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½" x 3/8" x 8½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

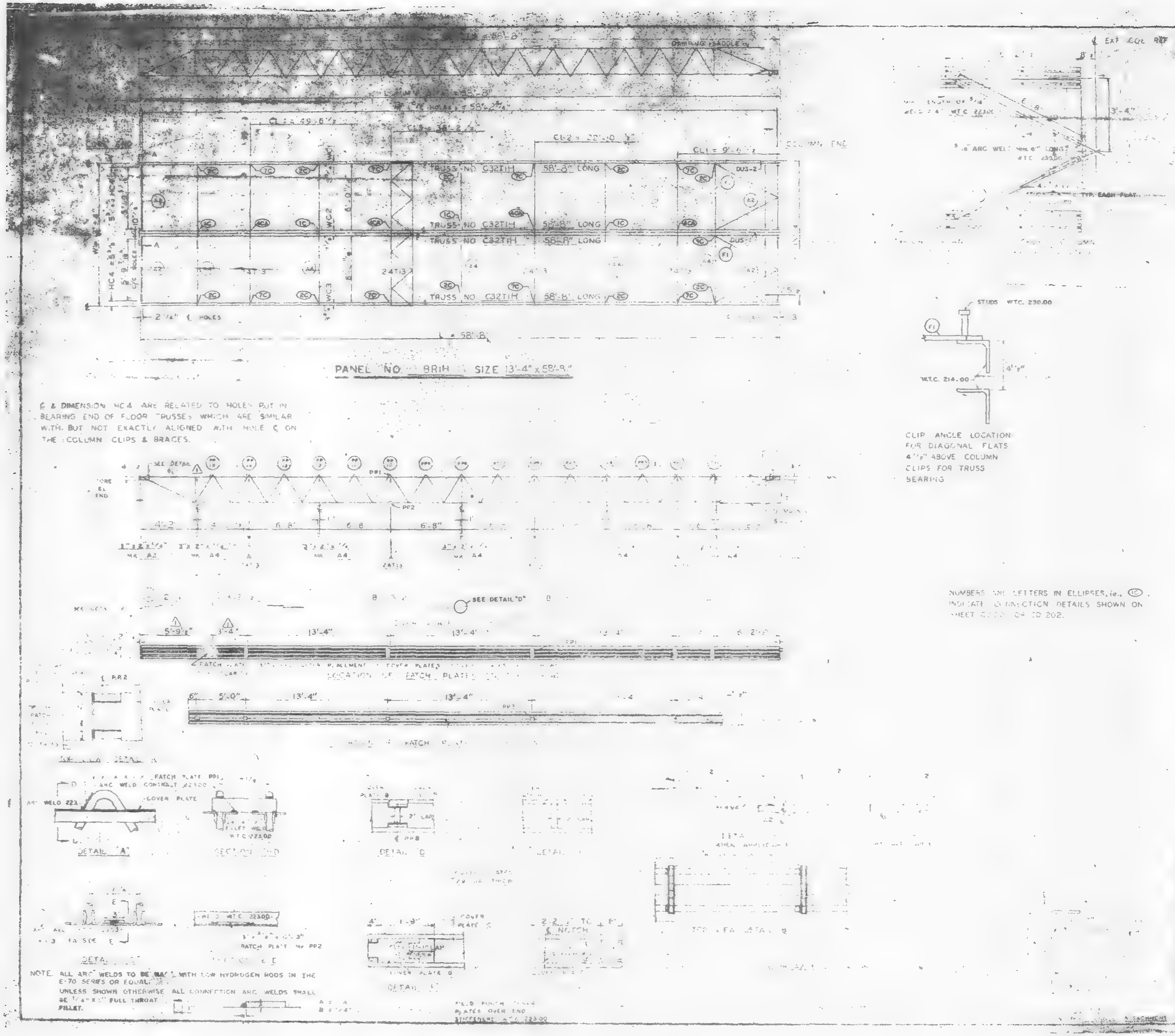
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	RJP

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15,R	7-22-68
7-AB4-42	10-15-68
SA 124	1-6-69
7-AB3-2	1-3-69
7-AH1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46 + 45-46 (5)
PANEL BRIK [illegible]
BLDG. B FLOOR 46 (EAST & WEST) 45 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION DATE
RELEASED FOR FABRICATION DATE
DESIGN DRAWING NO.
DRAWN BY
DATE
CHECKED BY
DATE
IN CHARGE


DAMPING SADDLE
HOLES = 58'-2"
CL = 49'-6 1/2"
CL2 = 22'-0 1/2"
CL1 = 9'-4 1/2"
COLUMN END
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8" LONG
DUS-2
DUS-1
WC2
WC3
HC4
2AT13
2'-1/4" ℄ HOLES
L = 58'-8"
PANEL NO BRIH SIZE 13'-4" x 58'-8"
EXT COL REF LINE
3'-4"
ARC WELD WTC 223.00
TYP. EACH FLAT
SEE DETAIL
CORE EL END
PP1
PP2
4'-2"
6'-8"
6'-8"
6'-8"
3"x2"x1/4" MK A2
3"x2"x1/4" MK A4
SEE DETAIL "D"
5'-9 1/2"
3'-4"
13'-4"
13'-4"
PATCH PLATE
LOCATION OF PATCH PLATES
6"
5'-0"
13'-4"
13'-4"
PATCH PLATE PP1
ARC WELD CONTRACT 223.00
ARC WELD 223
COVER PLATE
FILLET WELD WTC 223.00
DETAIL "A"
SECTION
DETAIL "C"
2" LAP
DETAIL
3" x 3/8" x 0'-3" PATCH PLATE Mk PP2
DETAIL
COVER PLATE
4" LAP
DETAIL
2'-2 1/2" TO
℄ NOTCH
FIELD WELD
STUDS WTC 230.00
F1
4 1/2"
W.T.C. 214.00
A = A
B = 1/4"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET [illegible] OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL [illegible]				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	3	[illegible]	[illegible]
3"x2"x1/4" ANGLE	A2	[illegible]	[illegible]	[illegible]
	A4	6	3"x2"x1/4" [illegible]	[illegible]
DIAGONAL FLATS	F1	[illegible]	3 1/2 x [illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	3" x 3/8" x 0'-3"	ST 400
PLATES	A	2	[illegible]	[illegible]
	B	4	9" x .035" x 13'-2"	ST 303
	C	2	9" x .035" x 13'-2"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C	6	2" x 1 1/2" x 1/4" 0'-8"	ST 400
SHEAR ANCHOR	SA2	6	#6 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	[illegible]	[illegible]	[illegible]
	DUS-2	1	3 1/2 x 3 1/2 x 3/8 x 3'-8"	ST290
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3 1/2" x 3/8"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	R.J.[illegible]

1 REF DRWG

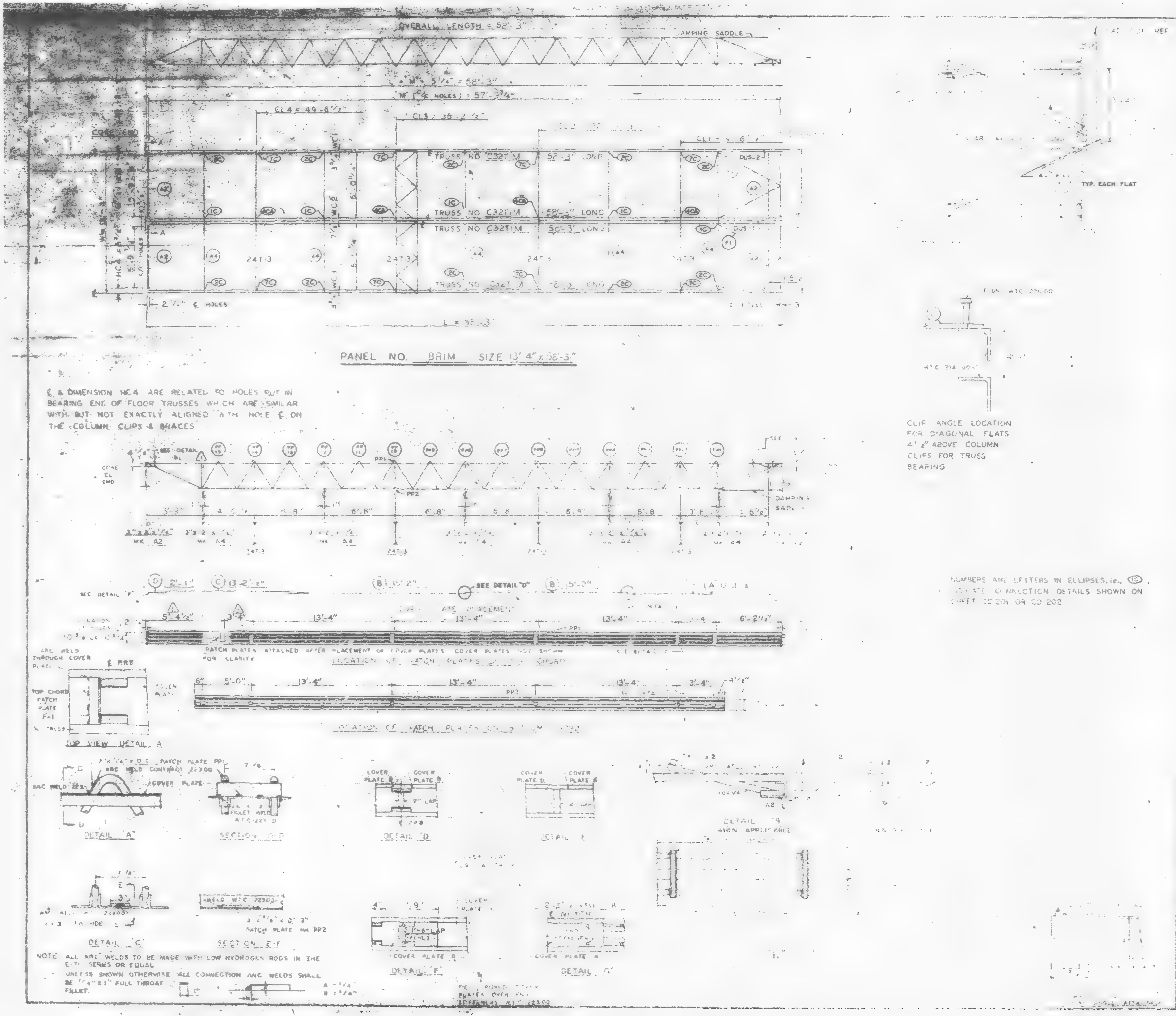
7-AB4-3	10-15-68
7-AB4-15,16	3-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-2	[illegible]-3-68
7-AB1-2	3-22-68
7-AB2-9	[illegible]-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 79-80 (N)
PANEL BRIH - 13'-4" x 58'-8"
BLDG. B FLOORS 79-80 (WEST) 1

LACLEDE STEEL COMPANY
AT [illegible], ILLINOIS

APPROVED FOR FABRICATION BY	DATE 1/7/70	DESIGN DRAWING NO. 7-AB3-6	PLATE
APPROVED FOR FABRICATION BY FABRICATOR	DATE	DRAWN BY [illegible] DATE 10-25-68	
		CHECKED BY [illegible] DATE [illegible]-22-68	[illegible]
[illegible]		FABRICATION DRAWING NO. 221	SHEET NO. [illegible]


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
L = 58'-3"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL1 = 7'-6½"
CORE END
TRUSS NO C32T1M
58'-3" LONG
DUS-2
DUS-1
24T13
A2
A4
1C
2C
7C
4CA
F1
HC4
2'-7½" ℄ HOLES
SEE DETAIL "B"
PP1
PP2
CORE EL END
DAMPING SADDLE
3'-3"
6'-8"
3'-6"
MK A2
MK A4
SEE DETAIL "D"
SEE DETAIL "E"
13'-4"
5'-4½"
3'-4"
6'-2½"
5'-0"
4½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES
ARC WELD THROUGH COVER PLATE
℄ PP2
TOP CHORD PATCH PLATE F-1
COVER PLATE
TOP VIEW DETAIL A
PATCH PLATE PP1
ARC WELD CONTACT 22300
COVER PLATE
DETAIL "A"
SECTION "E-E"
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
DETAIL "H"
WHEN APPLICABLE
DETAIL "C"
WELD WTC 22300
PATCH PLATE MK PP2
SECTION "E-F"
1'-6" LAP
COVER PLATE B
DETAIL "F"
DETAIL "G"
TYP. EACH FLAT
WTC 214 00
A = ¼"
B = ¼"

PANEL NO. BRIM SIZE 13'-4" x 58'-3"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4'-2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), LOCATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	[illegible]	4	C32T1M [illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	[illegible]
3" x 2" x ¼" ANGLE	A2	4	3" x 2" x ¼" [illegible]	ST 483
	A4	5	3" x 2" x ¼" [illegible]	ST 483
DIAGONAL FLATS	F1	4	[illegible] x 2'-8"	[illegible]
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	9" x ⅜" x 0'-3"	ST 400
[illegible] PLATES	A	2	9" x .0135" x [illegible]	ST 400
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C	16	2" x 1½" x ¼" x 0'-6"	ST 400
#8 REBAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	[illegible]	[illegible]
	DUS-2	1	3½" x 3½" x ⅜" x [illegible]	ST 298
CONNECTION BAR	CB1	4	1 ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3½" x ⅜" x [illegible]	ST 400
	P2	8	4½" x .30" x 0'-0"	ST 400
	P3	4	4½" x .30" x 1'-0"	ST 400

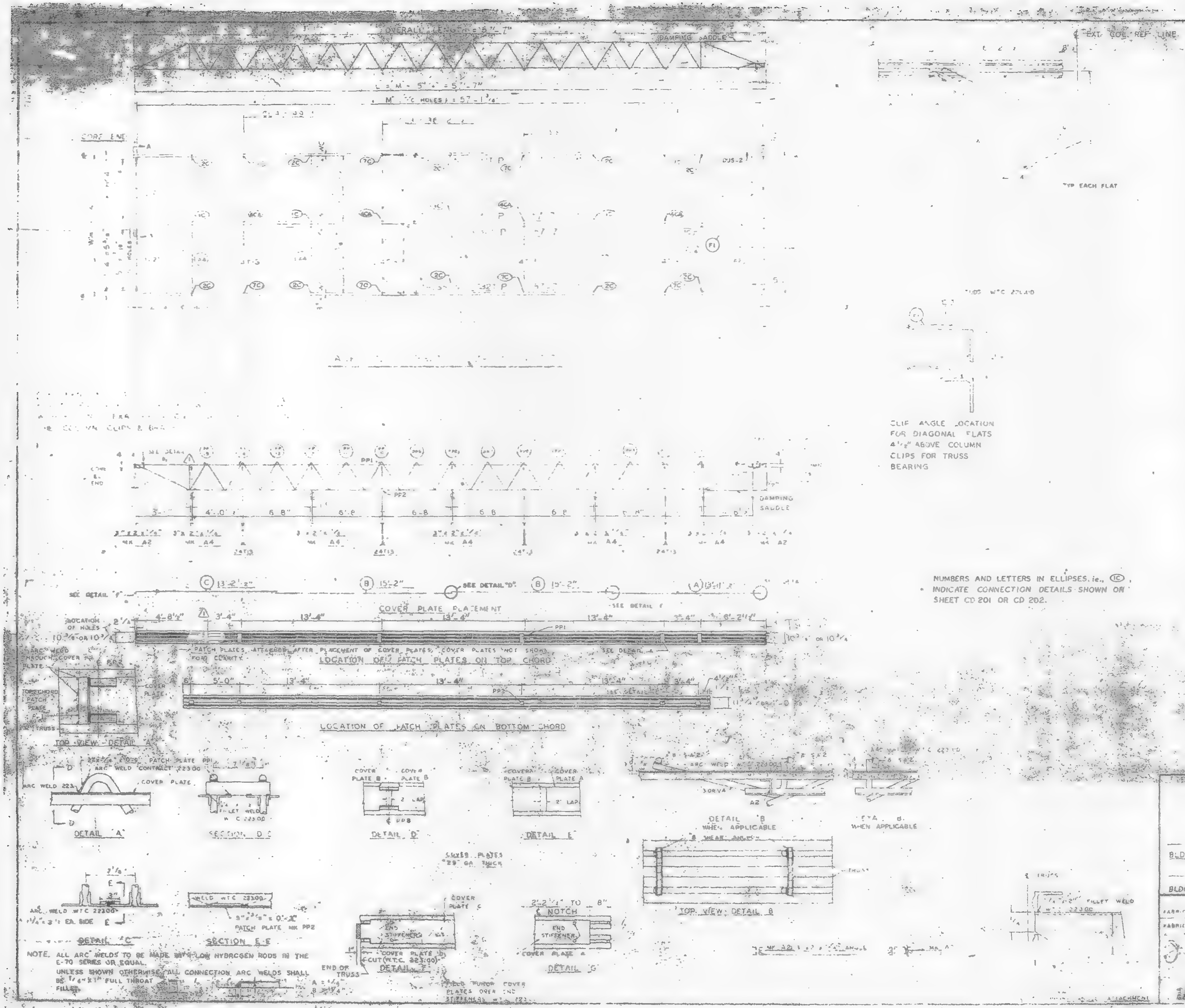
1	8-5-69	AS NOTED
NO.	DATE	REVISION

1 REF DRWG
7-AB4-3 10-15-68
7-AB4-10-6 7-22-68
7-AB4-32 10-15-68
SA-1124 1-6-69
7-AB3-2 [illegible]
7-AB4-8 7-22-68
7-AB4-9 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER, N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible]
PANEL BRIM 13'-4" x 58'-3"
BLDG B FLOORS 72-73 (WEST) 1

LACLEDE STEEL COMPANY
MADISON, ILLINOIS
SHOP DRAWING NO. 7-AB3-[illegible]
APPROVED FOR FABRICATION DATE
DRAWN BY
DATE
APPROVED FOR FABRICATION DATE
CHECKED BY
DATE
FABRICATION ORDER NO.
SHEET [illegible] OF [illegible]


OVERALL LENGTH = 5_'-7"
DAMPING SADDLE
L = M - 5" = 5_'-7"
M (TO HOLES) = 57'-1¾"
CORE END
EXT. COL. REF. LINE
TYP EACH FLAT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING
SEE DETAIL A
PP1
PP2
DAMPING SADDLE
3'-0"
4'-0"
6'-8"
24T13
MK A2
MK A4
SEE DETAIL "F"
SEE DETAIL "D"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
ARC WELD THROUGH COVER PLATE
TOP CHORD
PATCH PLATE
COVER PLATE
TRUSS
PATCH PLATE PP1
ARC WELD CONTACT 22300
FILLET WELD W.T.C. 22300
DETAIL "A"
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
ARC WELD W.T.C. 22300
1¼" x 3" EA. SIDE
DETAIL "C"
WELD W.T.C. 22300
5" x ⅜" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
COVER PLATES 26 GA. THICK
END STIFFENERS
CUT (W.T.C. 323.00)
END OF TRUSS
COVER PLATE "D"
DETAIL "F"
FIELD WELD COVER PLATES OVER END STIFFENERS W.T.C. 22300
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FILLET WELD
A = ¼"
B = 1¼"

NUMBERS AND LETTERS IN ELLIPSES, ie., ⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" X 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	SPEC
FLOOR TRUSSES	T1	4	C32T1 [illegible]	ST 201
[illegible] TRUSSES	T13	4	24T13 13'-3"	ST 213
[illegible]	[illegible]	5	[illegible]	ST 403
[illegible]	B	4	[illegible]	[illegible]
[illegible]	[illegible]	2	[illegible]	[illegible]
[illegible]	[illegible]	16	[illegible]	ST 4[illegible]
CONNECTION PLATES	P1	5	3½" x ⅜" x 6'-2"	ST 4[illegible]
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400

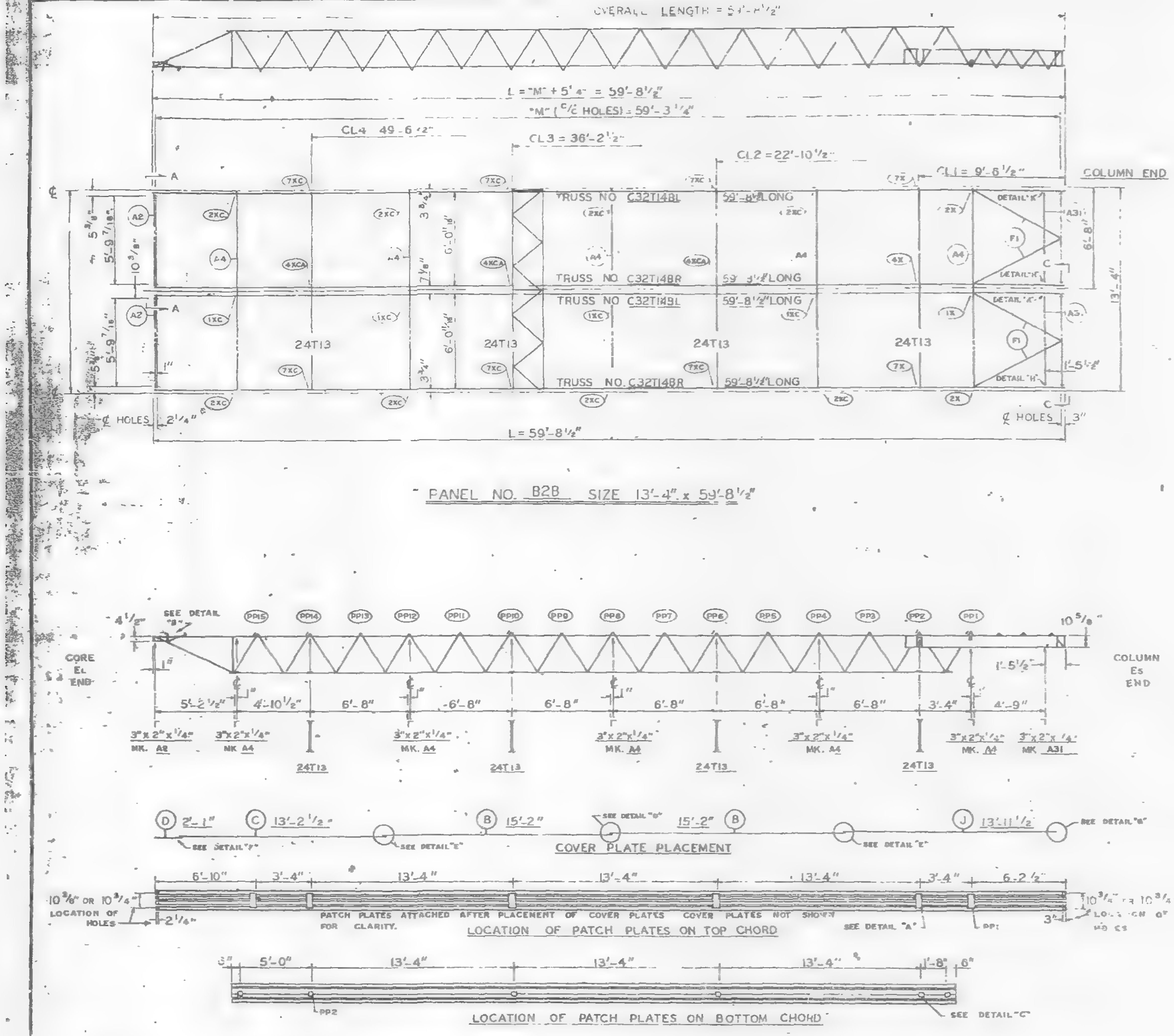
NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	

REF. DRWG.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74 (N)
PANEL BRI 19'-4" x 5_'
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO. PLATE
DATE 1/2/68
DRAWN BY
CHECKED BY
IN CHARGE
FABRICATION CONT. NO. 221
SHEET NO. FP BRI

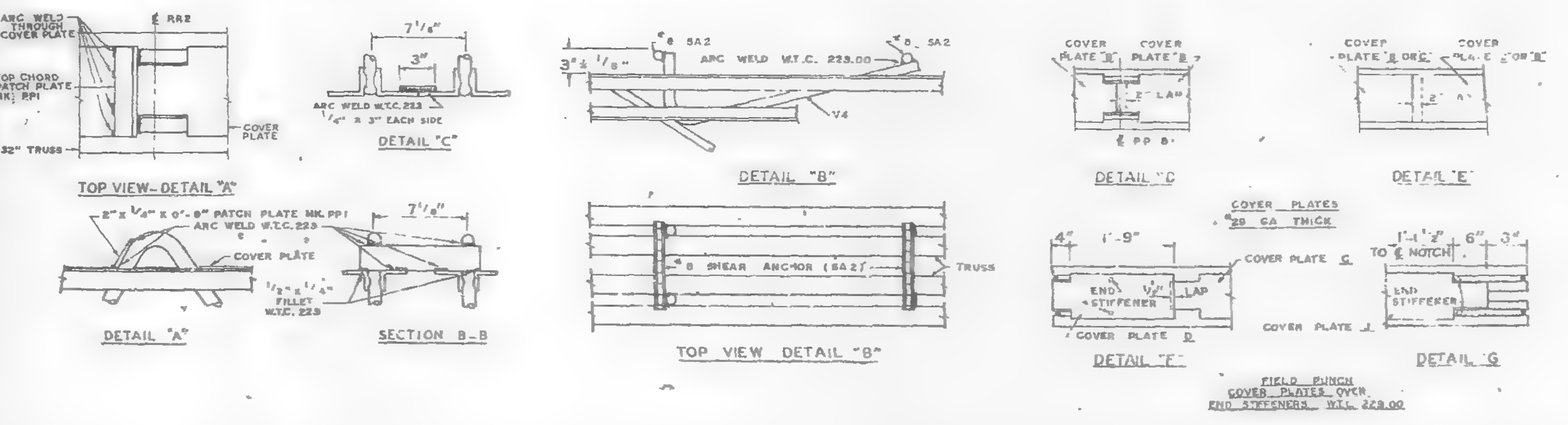

OVERALL LENGTH = 59'-8½"
L = "M" + 5'4" = 59'-8½"
"M" (C/C HOLES) = 59'-3¼"
CL4 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-8½"
COLUMN END
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
TRUSS NO. C32T149L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
24T13
DETAIL "K"
DETAIL "H"
13'-4"
℄ HOLES 2¼"
℄ HOLES 3"
L = 59'-8½"
SEE DETAIL "B"
CORE EL END
COLUMN Es END
5'-2½" 4'-10½" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x¼" MK. A2
3"x2"x¼" MK A4
3"x2"x¼" MK A31
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
13'-2½" 15'-2" 15'-2" 13'-11½"
10⅜" OR 10¾" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
6'-10" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2½"
3" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"

PANEL NO. B28 SIZE 13'-4" x 59'-8½"

COVER PLATE PLACEMENT

LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD


ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
ARC WELD W.T.C. 223 ¼" x 3" EACH SIDE
2" x ¼" x 0'-8" PATCH PLATE MK. PP1 ARC WELD W.T.C. 223
½" x ¼" FILLET W.T.C. 223
ARC WELD W.T.C. 223.00
#8 SA2
#8 SHEAR ANCHOR (SA2)
TRUSS
COVER PLATE "B"
COVER PLATE "C"
COVER PLATE "D"
END STIFFENER
COVER PLATE "J"
NOTCH
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
COVER PLATES #20 GA THICK

TOP VIEW-DETAIL "A"

DETAIL "C"

DETAIL "B"

DETAIL "A"

SECTION B-B

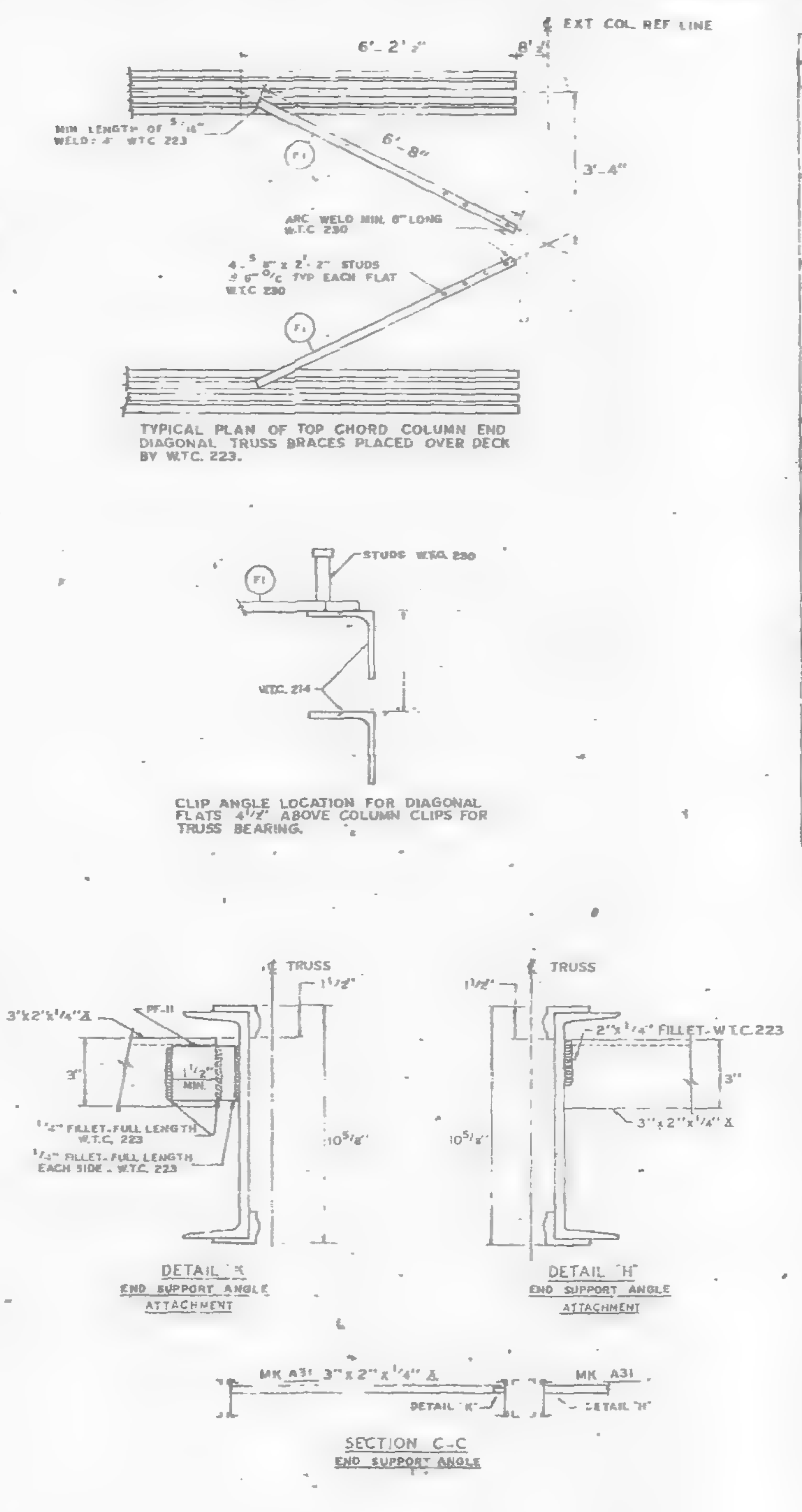
TOP VIEW DETAIL "B"

DETAIL "D"

DETAIL "E"

DETAIL "F"

DETAIL "G"


EXT COL REF LINE
6'-2½"
MIN LENGTH OF 5¼" WELD W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4-⅝" x 2-2" STUDS 3" C/C TYP. EACH FLAT W.T.C. 230
F1
STUDS W.T.C. 230
W.T.C. 214
TRUSS
3"x2"x¼" A
¼" FILLET-FULL LENGTH W.T.C. 223
½" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10⅝"
2"x¼" FILLET-W.T.C. 223
3"x2"x¼" A
MK A31 3"x2"x¼" A
DETAIL "K"
DETAIL "H"

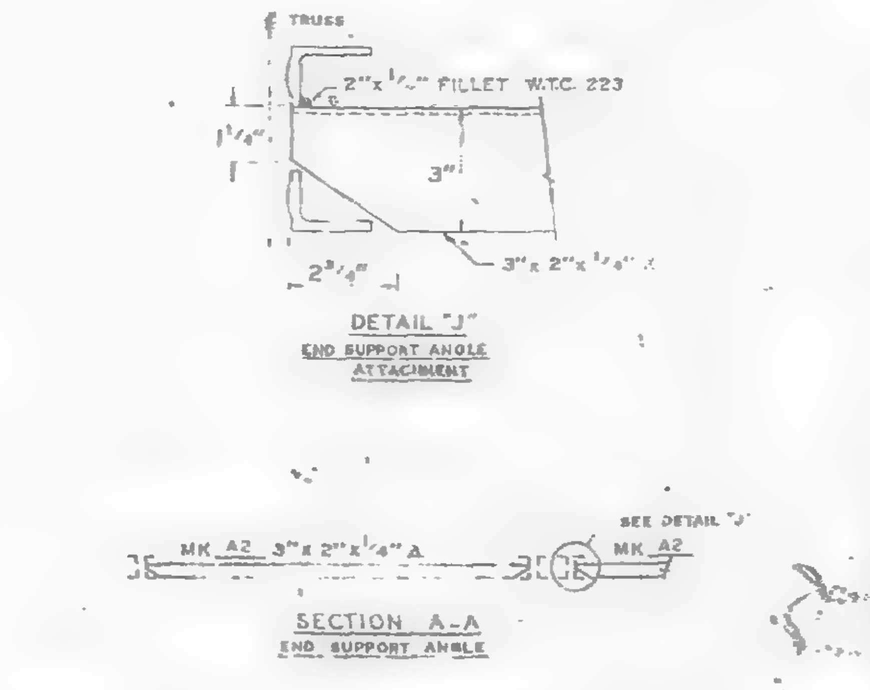
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

DETAIL "K"
END SUPPORT ANGLE ATTACHMENT

DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

SECTION C-C
END SUPPORT ANGLE


TRUSS
2"x½" FILLET W.T.C. 223
1¼"
3"
2¾"
3"x2"x¼" A
MK A2 3"x2"x¼" A
SEE DETAIL "J"
MK A2

DETAIL "J"
END SUPPORT ANGLE ATTACHMENT

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T148L	2	C32T148L x 59'-8½"	ST 2148L
	T148R	2	C32T148R x 59'-8½"	ST 2148L
BRIDGING TRUSSES	T13	4	24T13 x 13'-3"	BT 213
3"x 2"x ¼" ANGLE	A2	2	3"x2"x¼" x 5'-1⅝" [illegible]	ST 403
	A4	[illegible]	[illegible]	ST 403
	[illegible]	2	[illegible]	ST 410
CLOSURE PLATES		[illegible]	[illegible]	ST [illegible]
DIAGONAL FLATS	F	[illegible]	[illegible] x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1		2" x ¼" x 0'-8"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	[illegible]	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	6	2" x 2½" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400
	P9	4	3" x ½" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie , (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

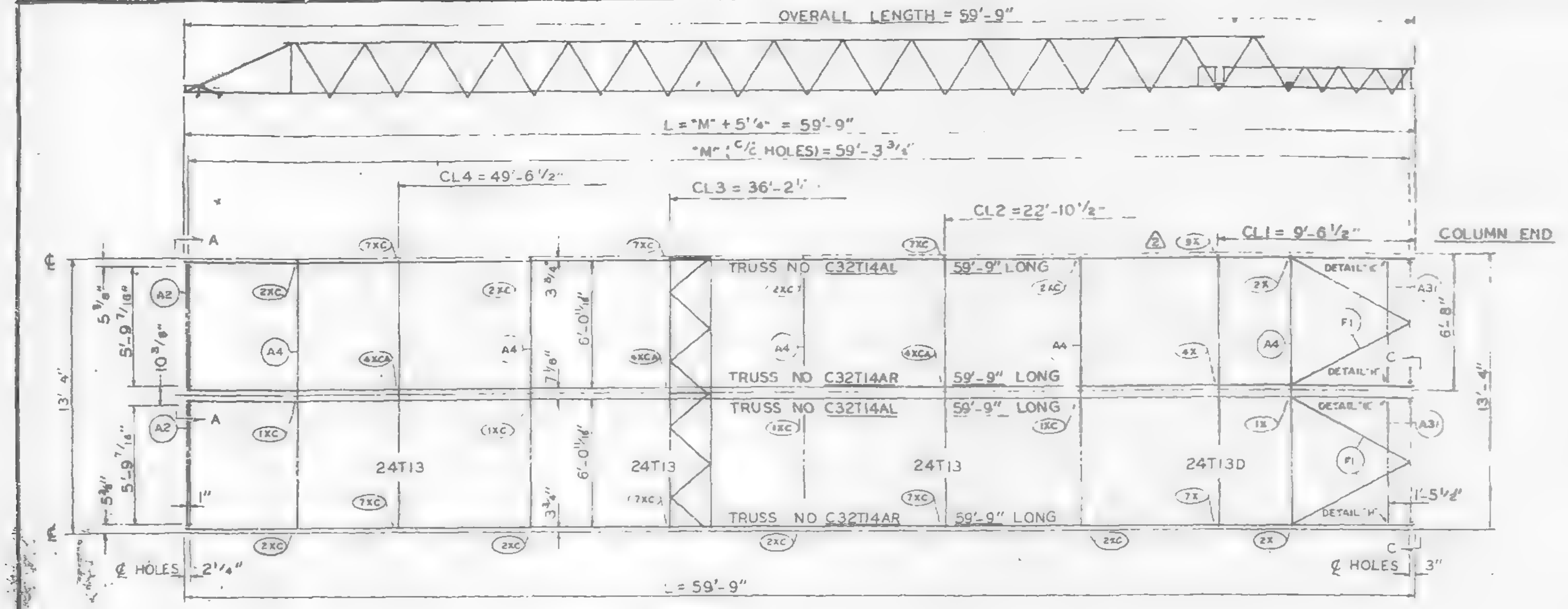
REF DRWG.

7-A83-25	10-4-68
7-A81-13	10-4-68
7-A82-6	7-22-68
7-A84-28	7-22-68
SA-124	10-11-68
7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

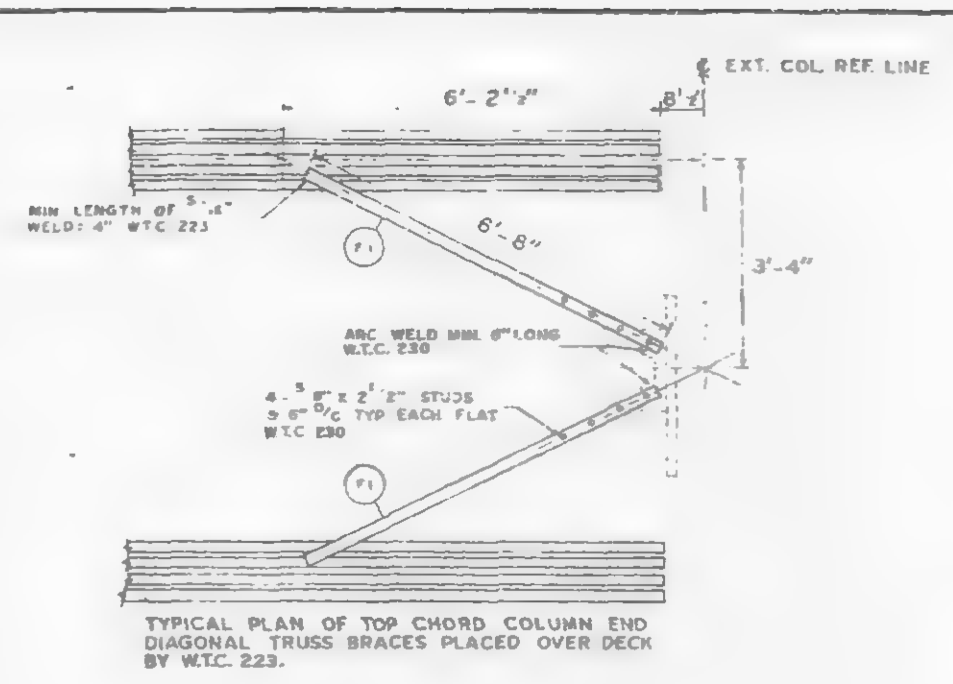
BLDG. A FLOORS 92 (NORTH)
PANEL B28-13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/6/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
DESIGN DRAWING NO 7-A83-26 PLATE
DRAWN BY LWR DATE APRIL 28, 1969
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO W.T.C. 221
SHEET NO FP B28



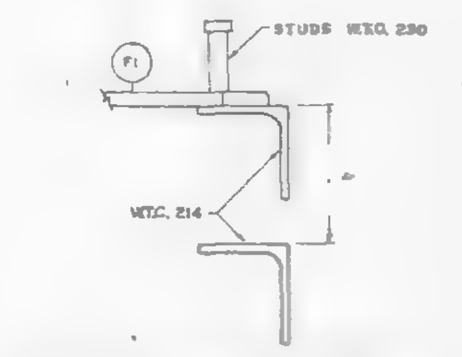
OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/L HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
24T13
24T13
24T13
24T13D
A2
A4
A31
F1
DETAIL "K"
DETAIL "H"
13'-4"
6'-8"
1'-5 1/2"
C HOLES 2 1/4"
C HOLES 3"
L = 59'-9"

PANEL NO. BR2A SIZE 13'-4" x 59'-9"



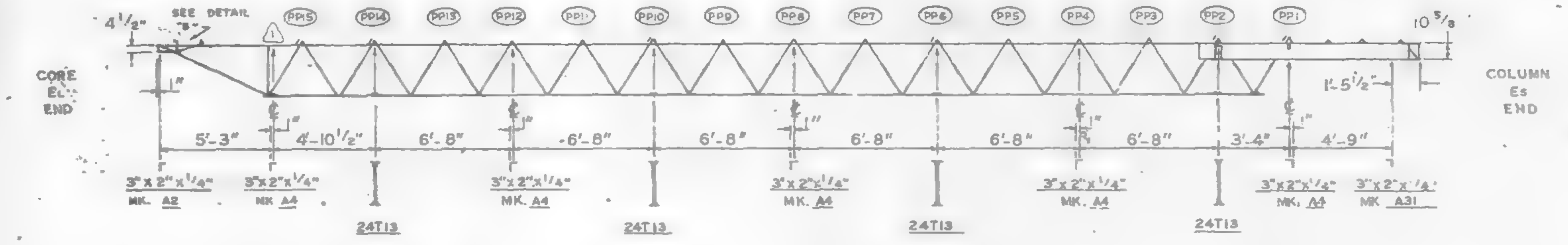
EXT. COL. REF. LINE
6'-2 1/2"
MIN LENGTH OF 5 1/4" WELD: 4" W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 3/8" x 2 1/2" STUDS 9 6" O/C TYP EACH FLAT W.T.C. 230
F1

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

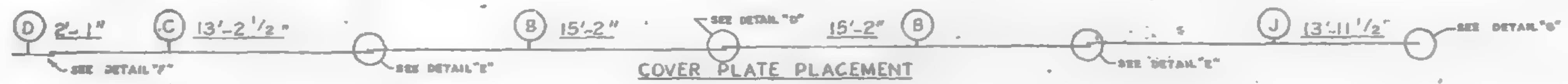


STUDS W.T.C. 230
F1
W.T.C. 214

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

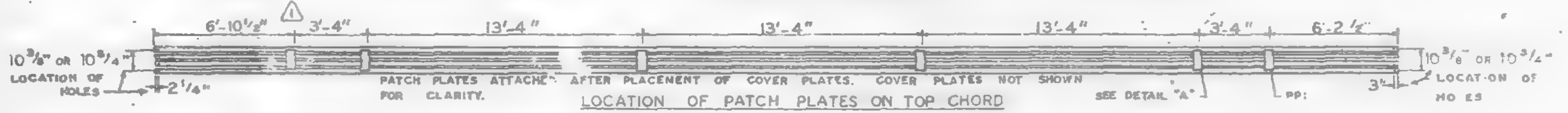


SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE END
COLUMN END
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
24T13



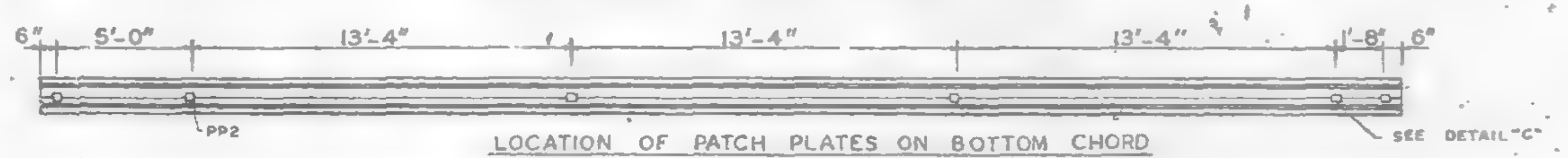
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "G"

COVER PLATE PLACEMENT



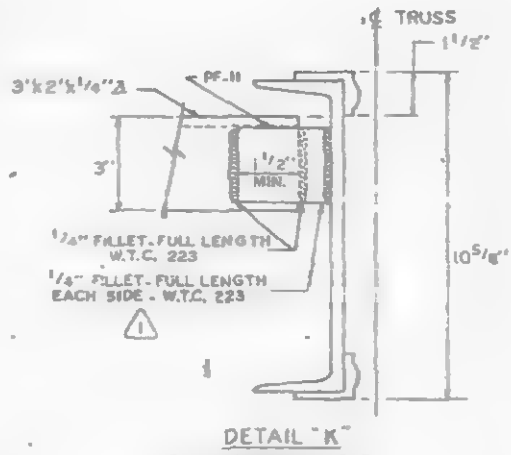
6'-10 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
PP1

LOCATION OF PATCH PLATES ON TOP CHORD



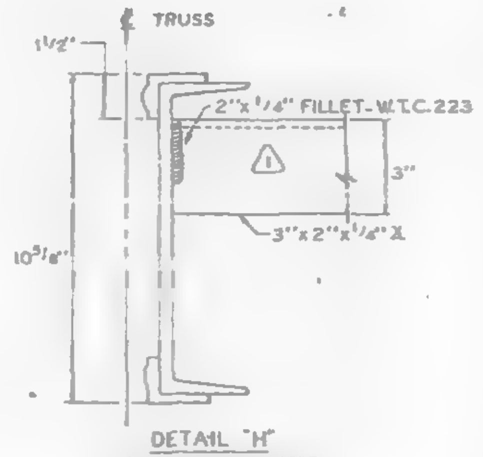
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"

LOCATION OF PATCH PLATES ON BOTTOM CHORD



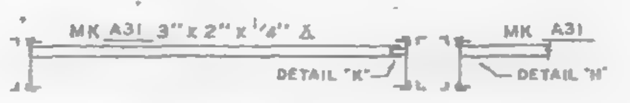
TRUSS
3"x2"x1/4" A
PF-11
1 1/2" MIN.
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

DETAIL "K"
END SUPPORT ANGLE ATTACHMENT



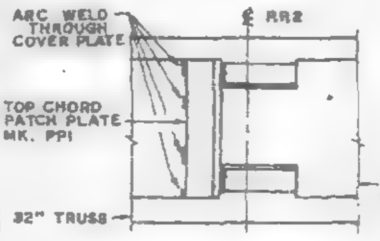
TRUSS
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4" A
10 5/8"

DETAIL "H"
END SUPPORT ANGLE ATTACHMENT



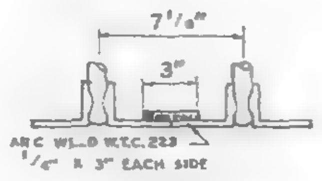
MK A31 3"x2"x1/4" A
MK A31
DETAIL "K"
DETAIL "H"

SECTION C-C
END SUPPORT ANGLE



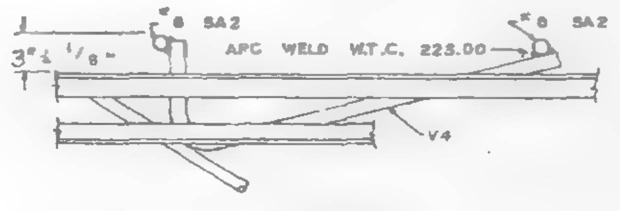
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE

TOP VIEW - DETAIL "A"



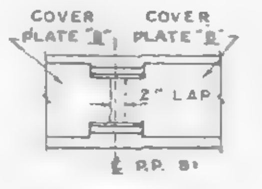
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE

DETAIL "C"



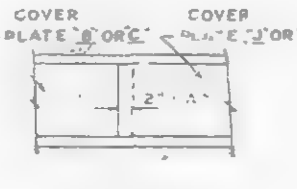
#8 SA2
ARC WELD W.T.C. 223.00
3 1/8"

DETAIL "B"



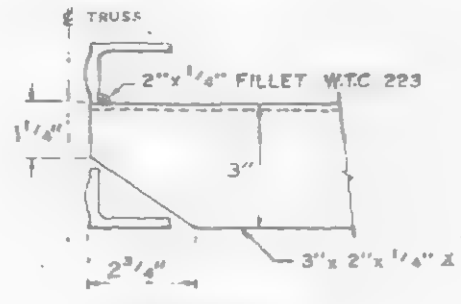
COVER PLATE "B"
COVER PLATE "B"
2" LAP
P.P. 9

DETAIL "D"



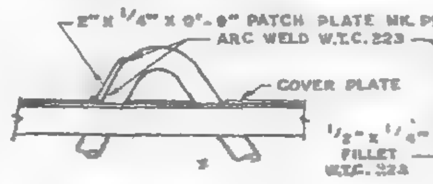
COVER PLATE "B" OR "C"
COVER PLATE "C" OR "B"

DETAIL "E"



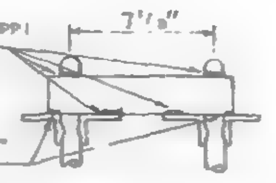
TRUSS
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4" A

DETAIL "J"
END SUPPORT ANGLE ATTACHMENT



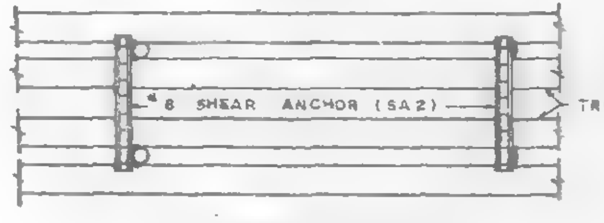
2"x1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"



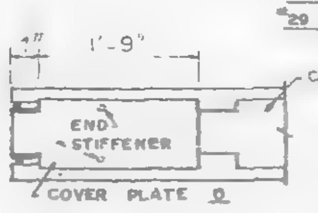
7 1/8"
1/2" x 1/4" FILLET W.T.C. 224

SECTION B-B



#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

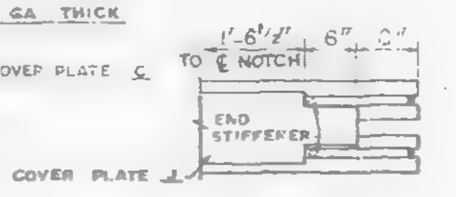


1'-9"
END STIFFENER
COVER PLATE D

DETAIL "F"

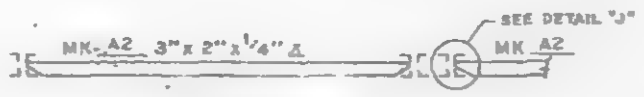
COVER PLATES #20 GA THICK

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00



COVER PLATE C
1'-6 1/2"
6"
TO C NOTCH
END STIFFENER
COVER PLATE J

DETAIL G



MK A2 3"x2"x1/4" A
SEE DETAIL "J"
MK A2

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13		24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x 13'-3"	ST 403
	A31	2	3"x2"x1/4"x 5'-8 [illegible]	ST 410
CLOSURE PLATES	PF 11	2	3"x 1/4" x 0'-2 3/8"	ST 402
DIAGONAL FLATS	F	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	2	2" x 1/4" x 0'-9"	ST 400
	PP2	2	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
2	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie, (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 56 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C
1	2-4-69	AS NOTED	G.D.C

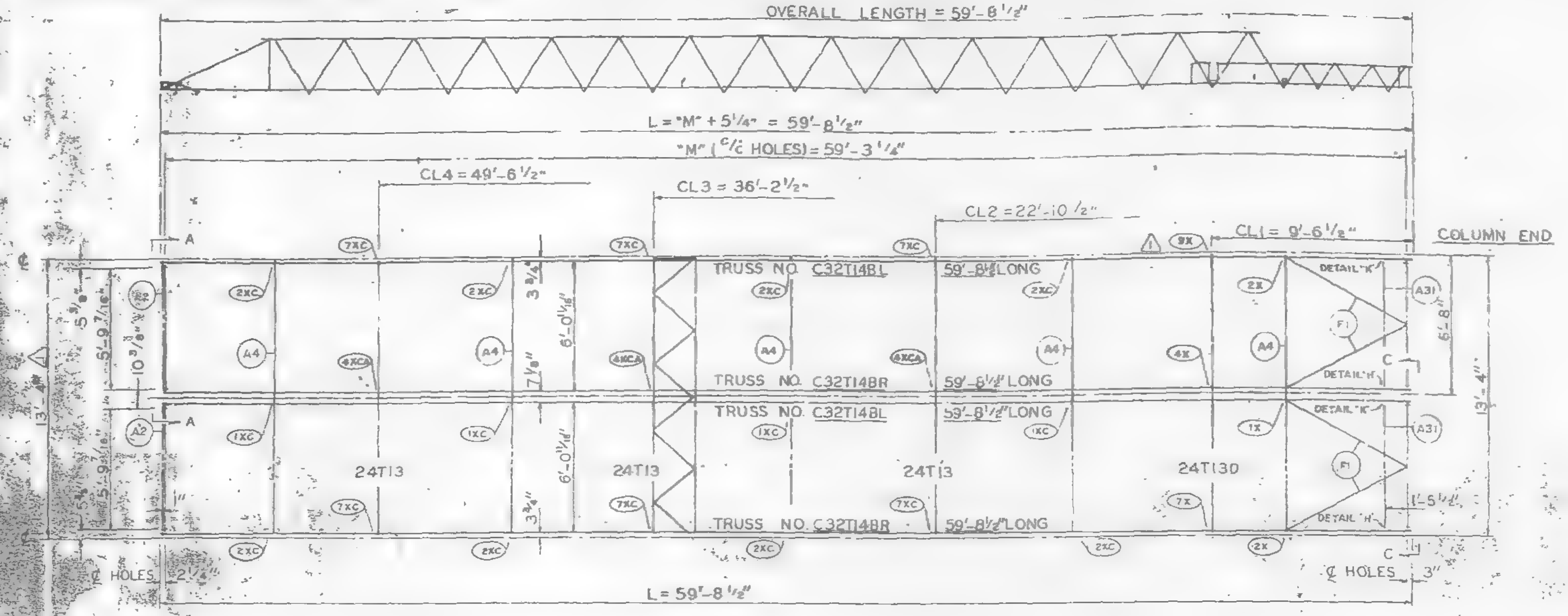
REF DRWG.		
	7-A83-27	10-4-68
	7-A81-13	10-4-68
	7-A82-6	7-22-68
	7-A84-28	7-22-68
	SA-124	10-11-68
	7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

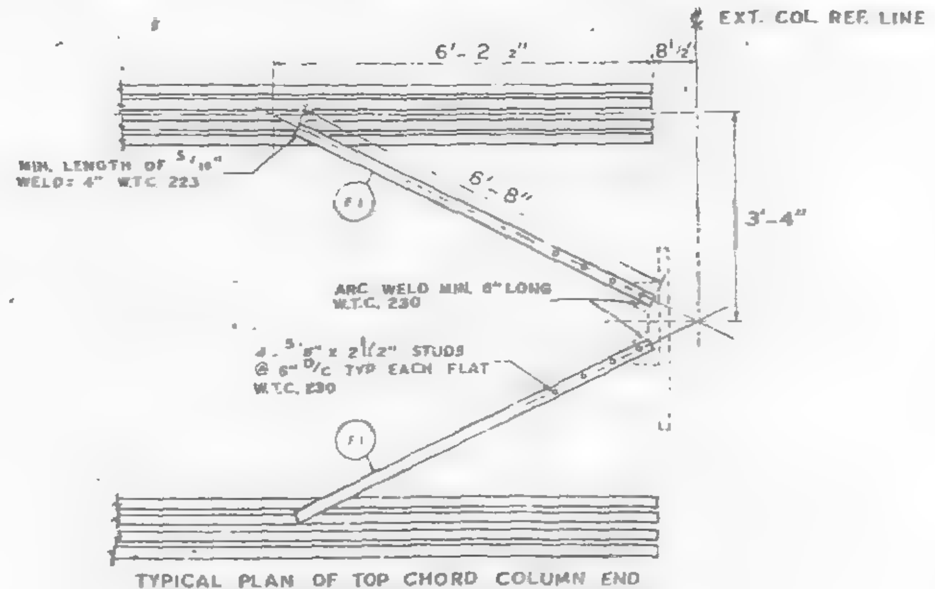
BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL BR2A-13'-4" x 59'-9"
1

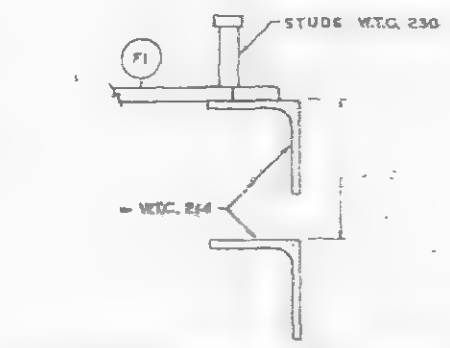
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-27	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE 6/6/69	DRAWN BY DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHUBA DATE DEC. 5, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.T. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR2A


OVERALL LENGTH = 59'-8½"
L = "M" + 5¼" = 59'-8½"
"M" (C/C HOLES) = 59'-3¼"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO. C32T14BL
59'-8½" LONG
TRUSS NO. C32T14BR
59'-8½" LONG
TRUSS NO. C32T14BL
59'-8½" LONG
TRUSS NO. C32T14BR
59'-8½" LONG
24T13
24T13
24T13
24T13D
DETAIL "K"
DETAIL "H"
A2
A4
A31
F1
2XC
1XC
7XC
4XCA
2X
1X
4X
7X
9X
A
C
13'-4"
6'-8"
6'-0½"
5'-9 7/16"
10⅜"
℄ HOLES 2¼"
℄ HOLES 3"
1'-5½"

PANEL NO. BR28 SIZE 13'-4" x 59'-8½"


℄ EXT. COL. REF. LINE
6'-2½"
8½"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4 - ⅝" x 2½" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1

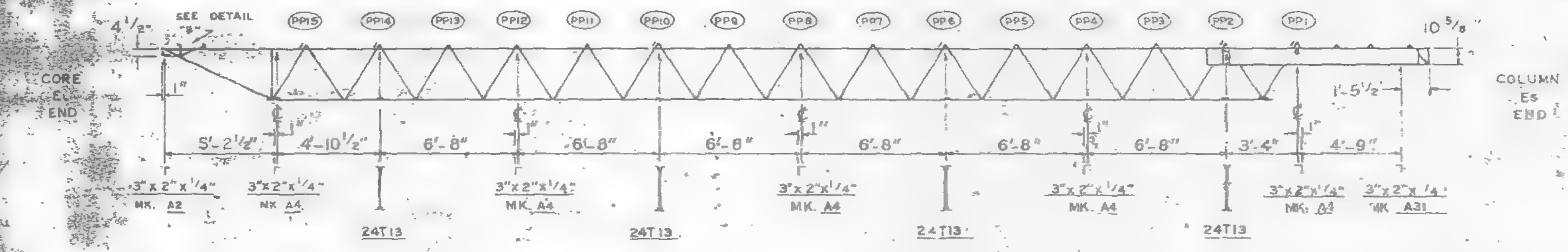
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

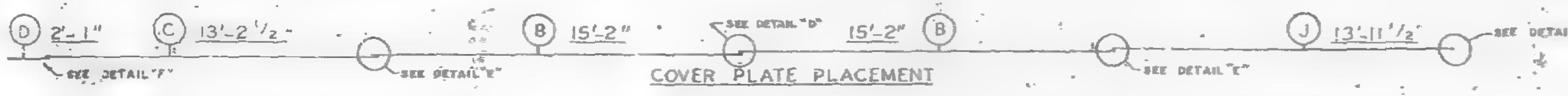

STUDS W.T.C. 230
F1
W.T.C. 214

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

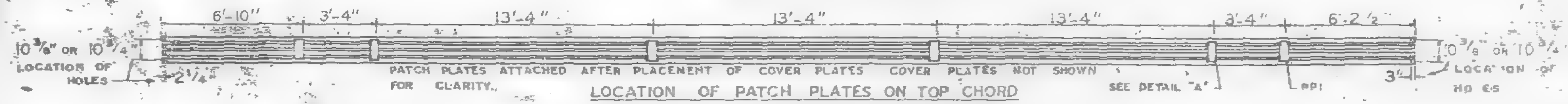
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8½"	ST 214BL
	T14BR	2	C32T14BR x 59'-8½"	ST 214BL
BRIDGING TRUSSES	T13	1	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3" x 2" x ¼" ANGLE	A2	2	3" x 2" x ¼" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x ¼" x 13'-3"	ST 403
	A31	2	3" x 2" x ¼" x 5'-8⅛"	ST 410
CLOSURE PLATES	PF11	2	3" x ¼" x 0'-2⅜"	ST 412
DIAGONAL FLATS	F1	4	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	16	2" x 1½" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400
	P9	4	3" x ½" x 1'-2"	ST 409
	P10	1	4½" x .39" x 0'-5"	ST 409
	P11	1	3" x ¼" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x ¼" FULL THROAT FILLET.


SEE DETAIL "B"
4½"
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
10⅝"
CORE ℄ END
COLUMN ℄ END
1"
5'-2½"
4'-10½"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
1'-5½"
3" x 2" x ¼" MK. A2
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A31
24T13
24T13
24T13
24T13

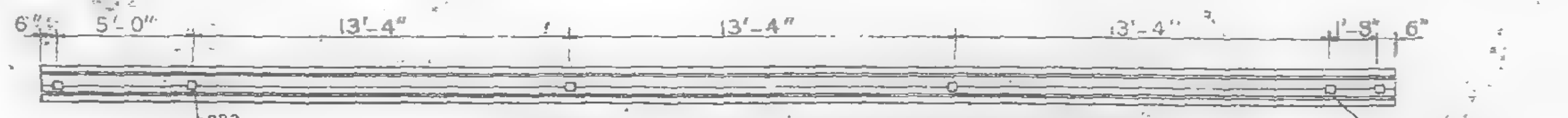

D 2'-1"
C 13'-2½"
B 15'-2"
15'-2" B
J 13'-11½"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"

COVER PLATE PLACEMENT

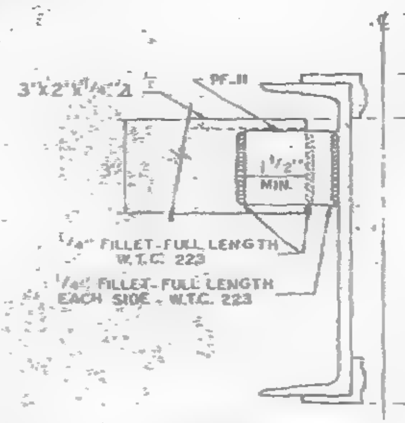

6'-10"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2½"
10⅜" OR 10¾" LOCATION OF HOLES
2¼"
3"
10⅜" OR 10¾" LOCATION OF HOLES
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY.

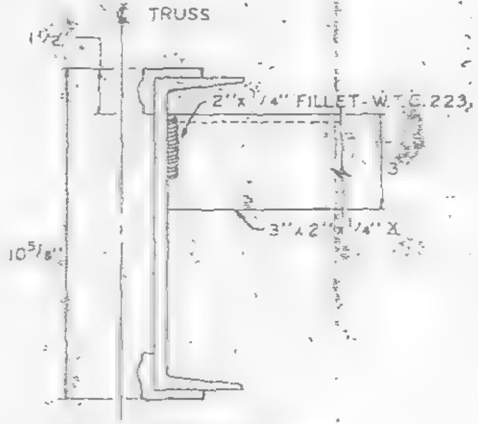
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
13'-4"
13'-4"
1'-8"
6"
PP2
SEE DETAIL "C"

LOCATION OF PATCH PLATES ON BOTTOM CHORD


℄ TRUSS
1½"
3" x 2" x ¼" ∠
PF-11
1½" MIN.
¼" FILLET-FULL LENGTH W.T.C. 223
¼" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10⅝"

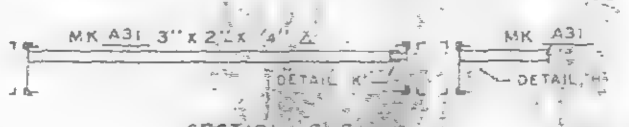
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT


℄ TRUSS
1½"
2" x ¼" FILLET-W.T.C. 223
3"
3" x 2" x ¼" ∠
10⅝"

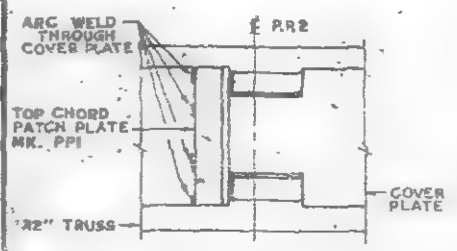
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	GDC

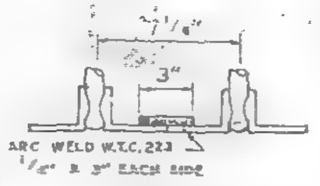
REF. DRWG.		
	7-AB3-27	10-4-68
	7-AB1-13	10-4-68
	7-AB2-8	7-22-66
	7-AB4-28	7-22-68
	SA-124	10-11-68
	7-AB3-24	8-15-68


MK A31 3" x 2" x ¼" ∠
MK A31
DETAIL "K"
DETAIL "H"

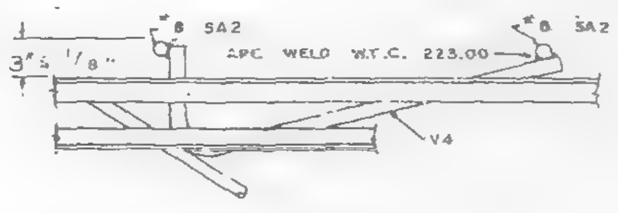
SECTION C-C
END SUPPORT ANGLE


ARC WELD THROUGH COVER PLATE
℄ PP2
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
"A2" TRUSS

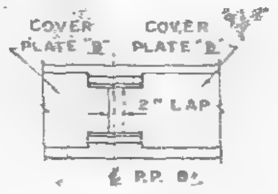
TOP VIEW - DETAIL "A"


7⅛"
3"
ARC WELD W.T.C. 223
⅛" x 3" EACH SIDE

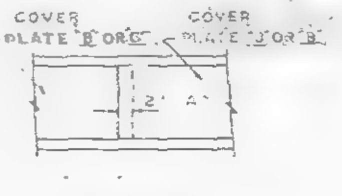
DETAIL "C"


#8 SA2
#8 SA2
3⅛"
ARC WELD W.T.C. 223.00
V4

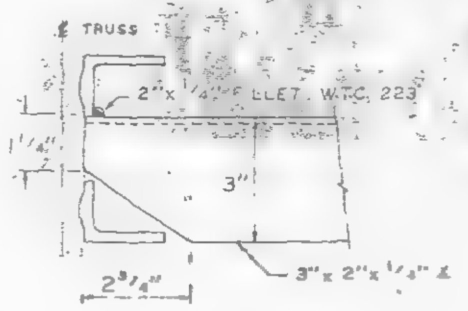
DETAIL "B"


COVER PLATE "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8

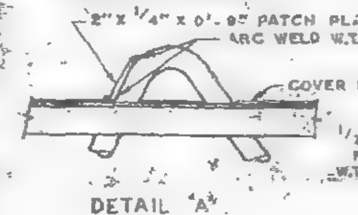
DETAIL "D"


COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" A

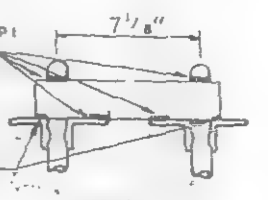
DETAIL "E"


℄ TRUSS
2" x ¼" FILLET. W.T.C. 223
1¼"
3"
2¾"
3" x 2" x ¼" ∠

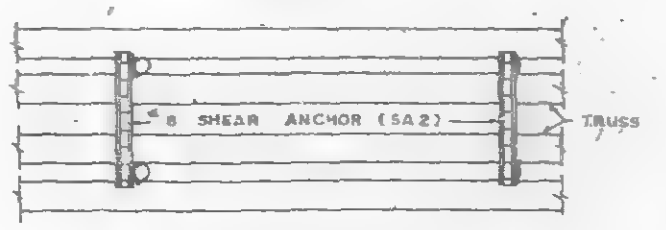
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


2" x ¼" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"

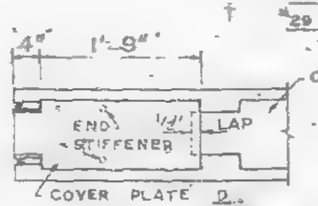

7⅛"
½" x ¼" FILLET W.T.C. 223

SECTION B-B

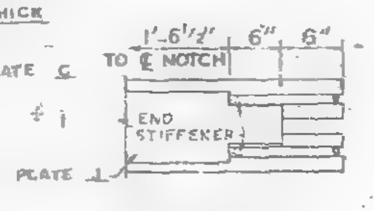

#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

COVER PLATES #29 GA THICK

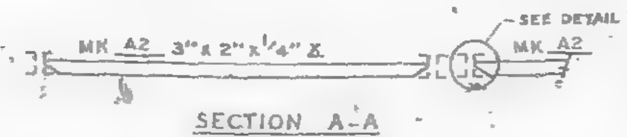

4"
1'-9"
COVER PLATE C
END STIFFENER
½"
LAP
COVER PLATE D

DETAIL "F"


1'-6½"
6"
6"
TO ℄ NOTCH
END STIFFENER
COVER PLATE J

DETAIL "G"

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00


MK A2 3" x 2" x ¼" ∠
SEE DETAIL "J"
MK A2

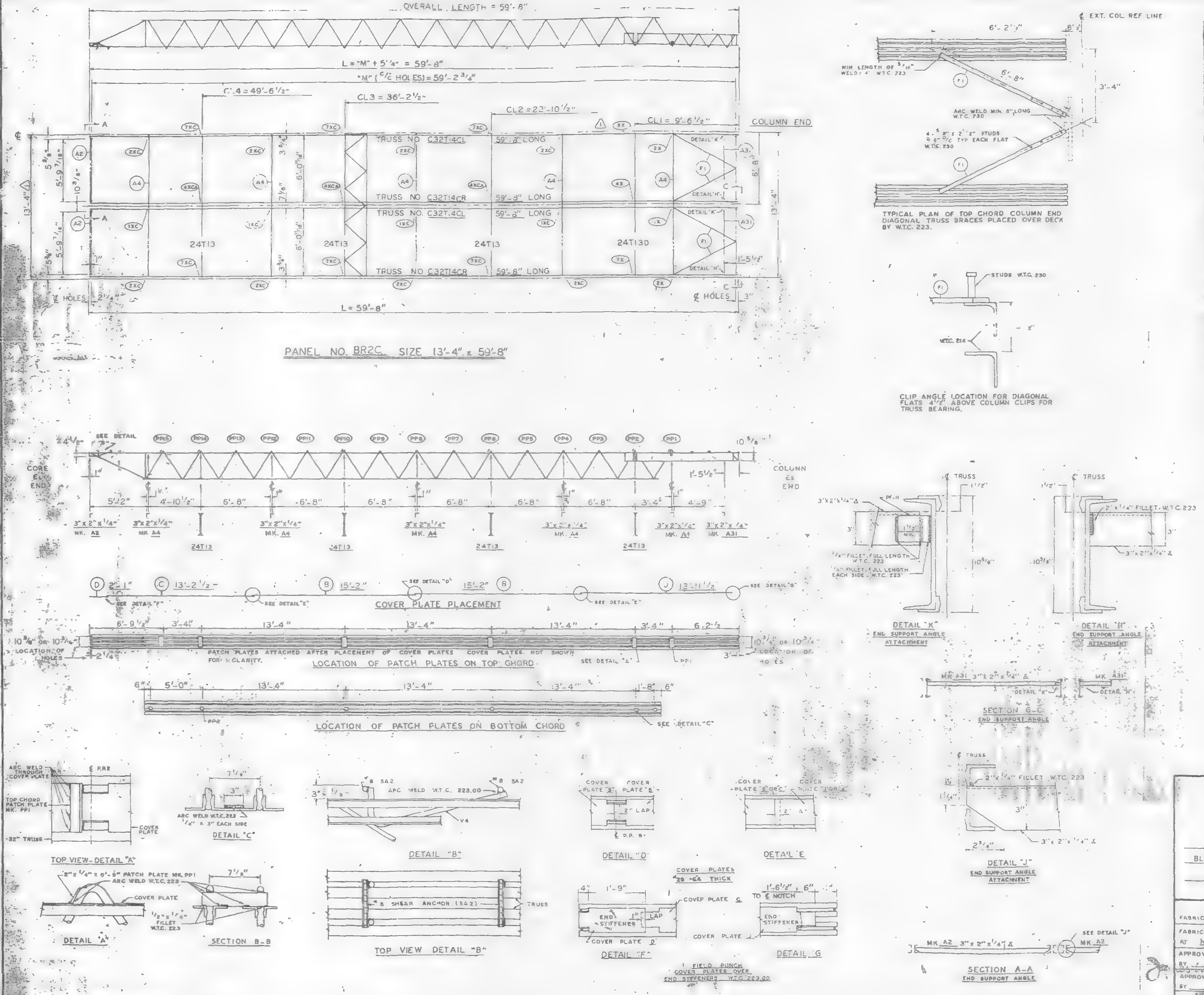
SECTION A-A
END SUPPORT ANGLE

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)

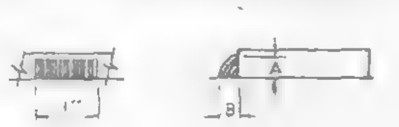
PANEL BR28-13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-27 ⚠1	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 6/6/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR28


OVERALL LENGTH = 59'-8"
L = "M" + 5'/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 23'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T13
24T13D
DETAIL "K"
DETAIL "H"
℄ HOLES
L = 59'-8"
PANEL NO. BR2C SIZE 13'-4" x 59'-8"
EXT. COL. REF LINE
6'-2 1/2"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD 4" W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL
CORE EL END
COLUMN ℄ END
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION B-B END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLE
ARC WELD W.T.C. 223.00
#8 SHEAR ANCHOR (SA2)
COVER PLATES .29 -GA THICK
1 FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2"x1/4" FILLET W.T.C. 223

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	1	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x 2"x1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P8	4	3"x 1/2"x 1'-2"	ST 405
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3" x 1/4" x 0'-8"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS. ie.. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.C

REF DRWG.

7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

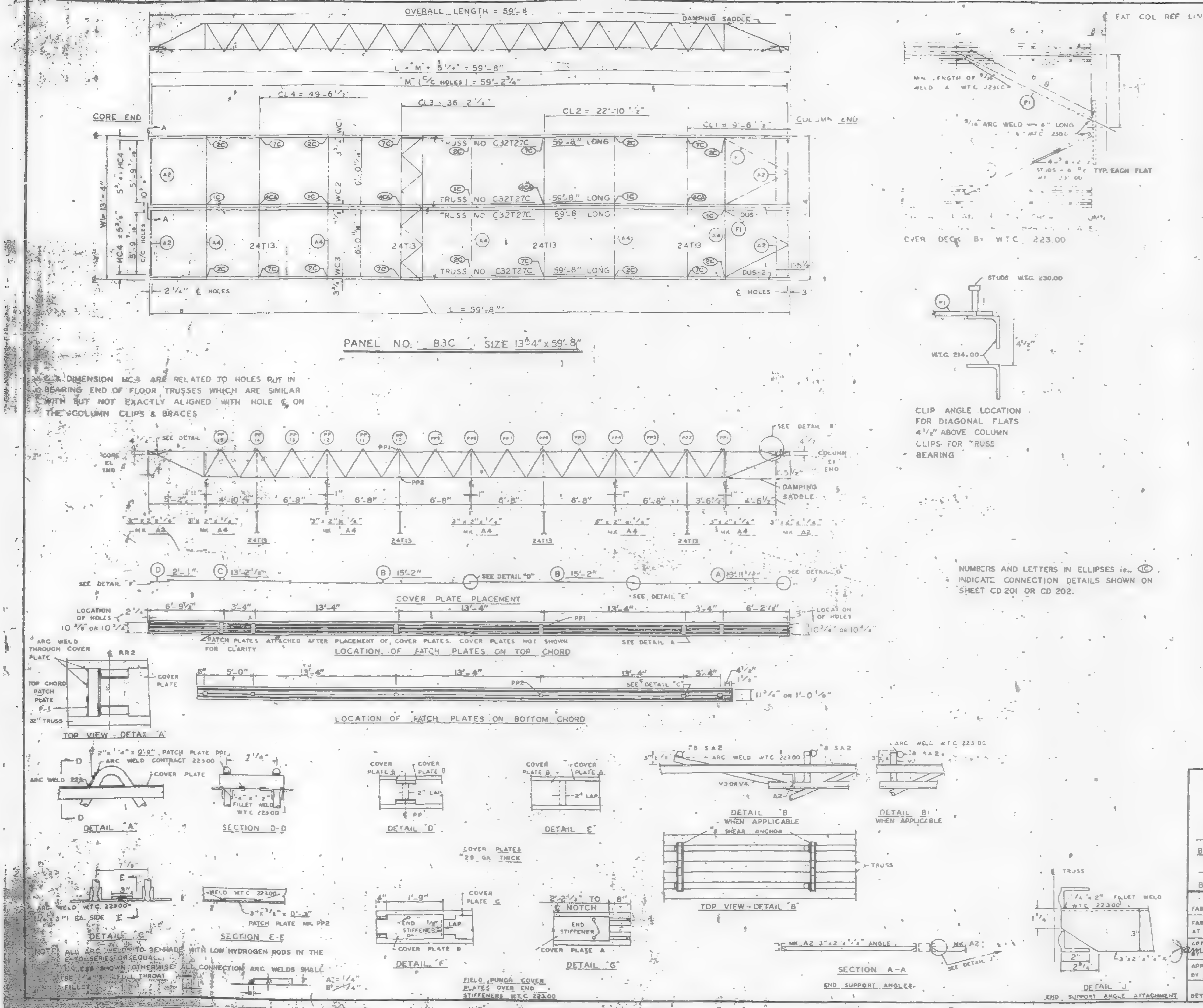
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL BR2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-27	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A	DATE 6/6/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR2C


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
L = M + 5 1/4" = 59'-8"
M (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T27C 59'-8" LONG
24T13
WT 13'-4"
HC4 = 5 3/8"
L = 59'-8"
PANEL NO. B3C SIZE 13'-4" x 59'-8"
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
24T13
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA THICK
DETAIL "B" WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
COVER DECK BY W.T.C. 223.00
EXT COL REF LINE
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x FULL THROAT FILLET

NUMBERS AND LETTERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27C	4	C32T27C-59'-8"	ST227C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2"	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-7 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x8 1/2"	ST400
	P2	4	4 1/2"x.30"x0'-8"	ST400
	P3	4	4 1/2"x.30"x1'-0"	ST400

NO.	DATE	REVISION	BY

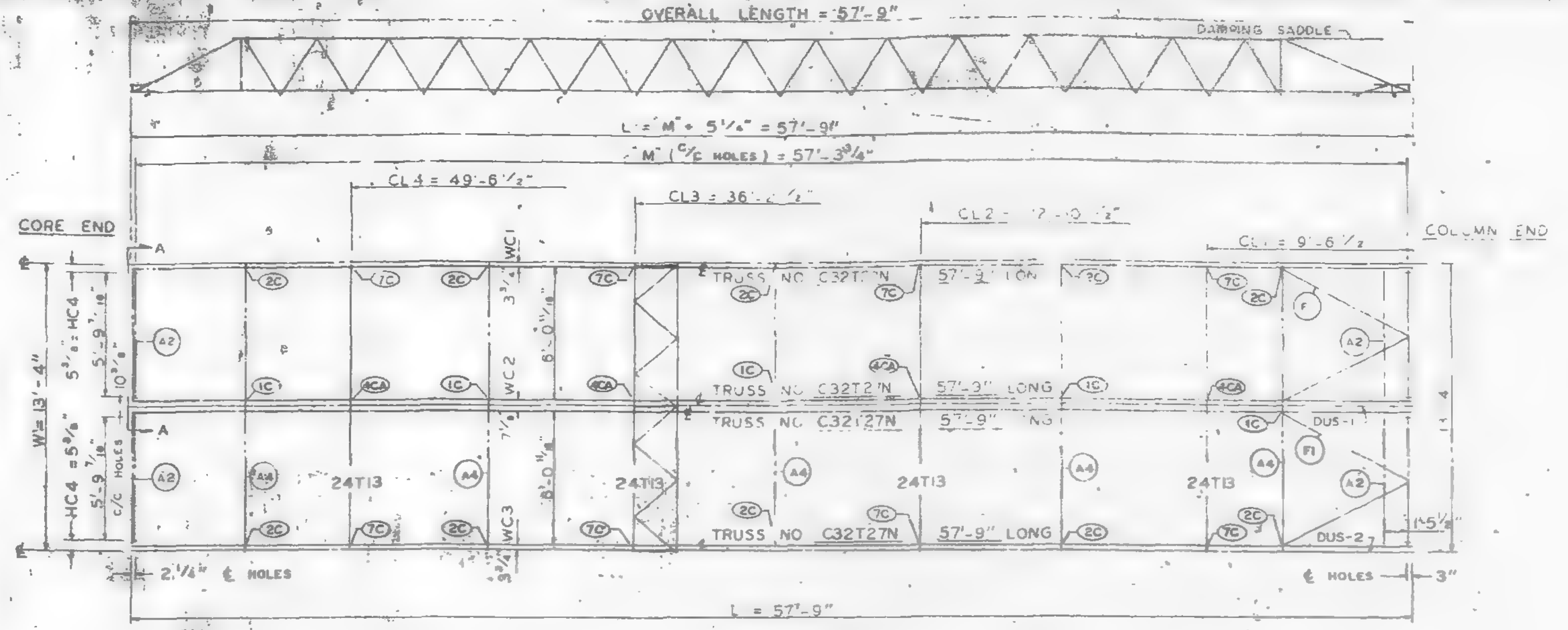
REF DRWG	
7 AB4 3	10-15-68
7-AB4 15 & 16	7-22-68
7-AB4 42	10-15-68
SA-124	1-6-69
7-AB3-43	1-6-69
7-AB1 #24	1-6-69
7-AB4 6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

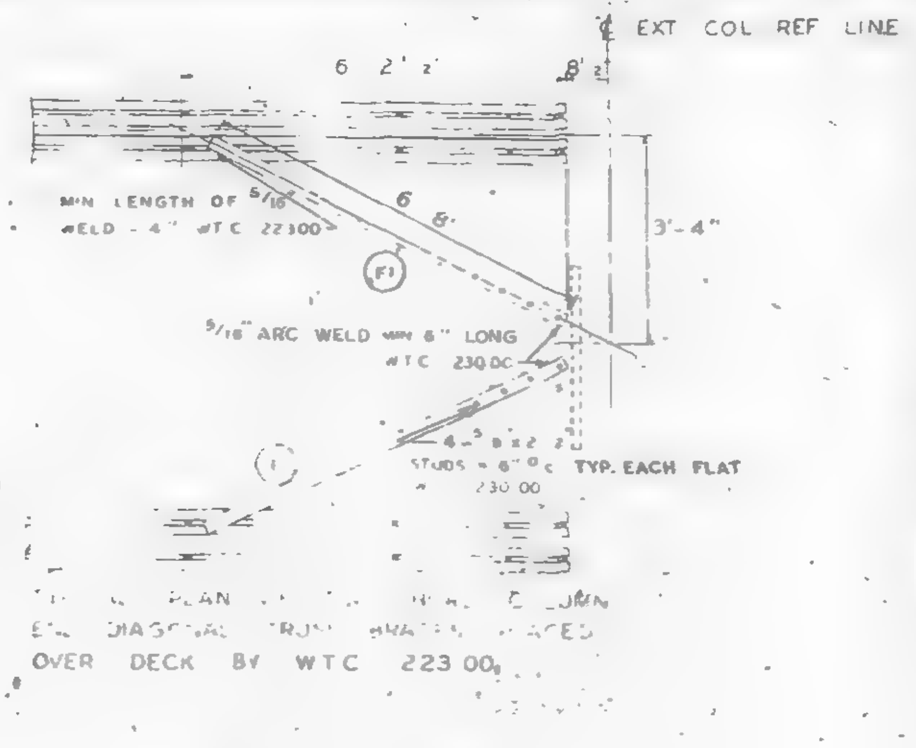
BLDG. A FLOORS 78 (SOUTH)
PANEL B3C - 13'-4" x 59'-8"
BLDG. B FLOORS 78 (EAST)

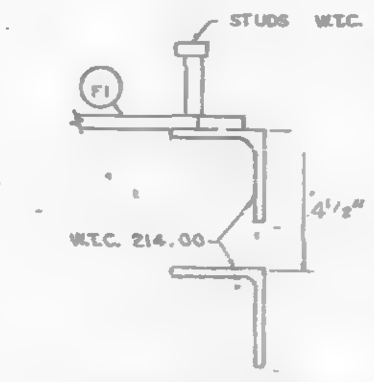
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY James ... FOR PONYA	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP B3C


OVERALL LENGTH = 57'-9"
DAMPING SADDLE
L = M + 5 1/4" = 57'-9"
M (C/C HOLES) = 57'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 12'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T2N 57'-9" LONG
TRUSS NO C32T27N 57'-9" LONG
24T13
WC1
WC2
WC3
W = 13'-4"
HC4
C/C HOLES
DUS-1
DUS-2
2 1/4" ℄ HOLES
℄ HOLES 3"
L = 57'-9"

PANEL NO. B3N SIZE 13'-4" x 57'-9"

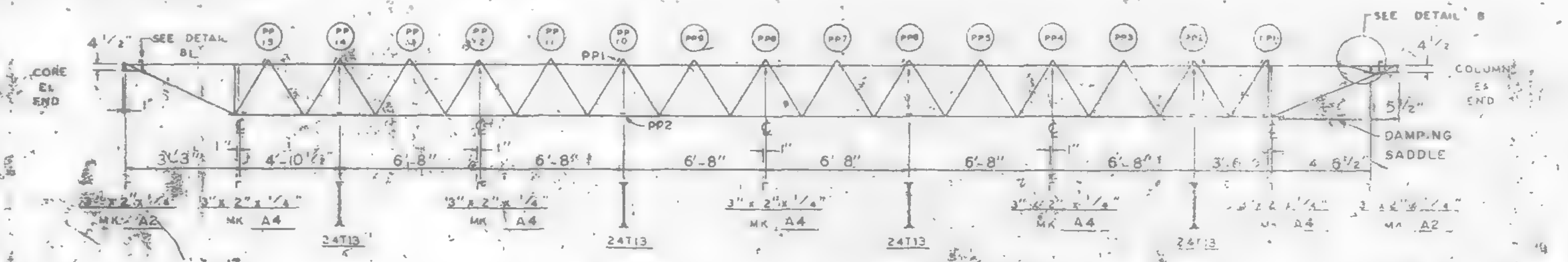

℄ EXT COL REF LINE
6 2 1/2"
6 8"
3'-4"
MIN LENGTH OF 5/16 WELD - 4" W.T.C. 223.00
5/16" ARC WELD MIN 6" LONG W.T.C. 230.00
STUDS - 6" ℄ TYP. EACH FLAT W.T.C. 230.00
F1
PLAN OF ℄ DIAGONAL TRUSS BRACING OVER DECK BY W.T.C. 223.00

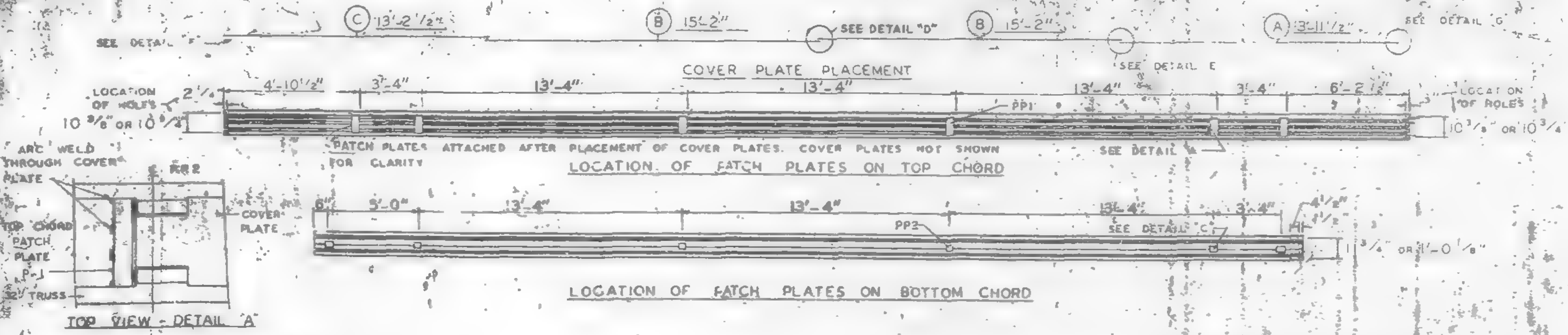

STUDS W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T2.N	4	C32T2N-57'-9"	ST 2[illegible]
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT 213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
DIAGONAL FLATS	F	4	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	9"x0.135"x3[illegible]	[illegible]
	B	4	9"x0.135"x15'-2"	ST 303
	C	2	9"x0.135"x13'-2 1/2"	ST 303
ANGLE CLIPS	C1	12	2"x1 1/2"x1/4"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-3 7/8"	ST 298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

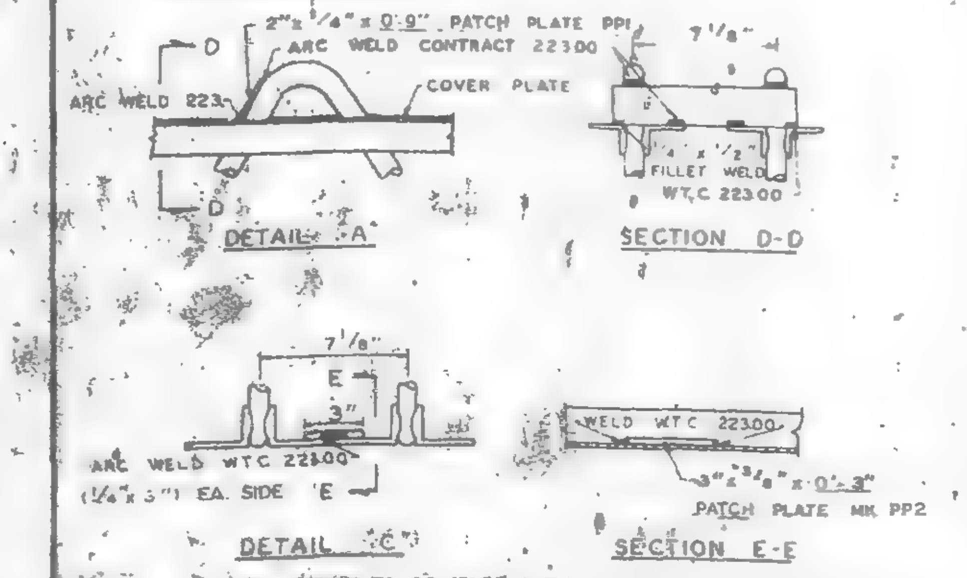

4 1/2"
SEE DETAIL BL
CORE ℄ END
PP1
PP2
SEE DETAIL B
COLUMN ℄ END
5 1/2"
DAMPING SADDLE
3'-3"
4'-10 1/2"
6'-8"
3'-6"
4'-5 1/2"
3"x2"x1/4" MK A2
3"x2"x1/4" MK A4
24T13


C 13'-2 1/2"
B 15'-2"
SEE DETAIL "D"
B 15'-2"
A 3'-11 1/2"
SEE DETAIL "G"
SEE DETAIL "F"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
2 1/4"
4'-10 1/2"
3'-4"
13'-4"
6'-2 1/2"
10 3/8" OR 10 5/8"
10 3/8" OR 10 3/4"
PP1
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
ARC WELD THROUGH COVER PLATE
PP2
COVER PLATE
TOP CHORD PATCH PLATE
5'-0"
13'-4"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"

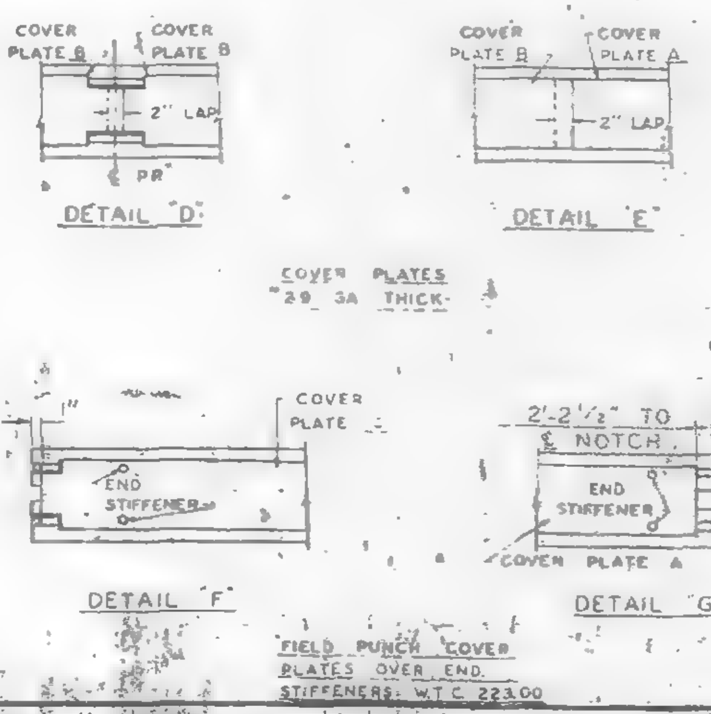
NUMBERS AND LETTERS IN ELLIPSES i.e. ①C INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

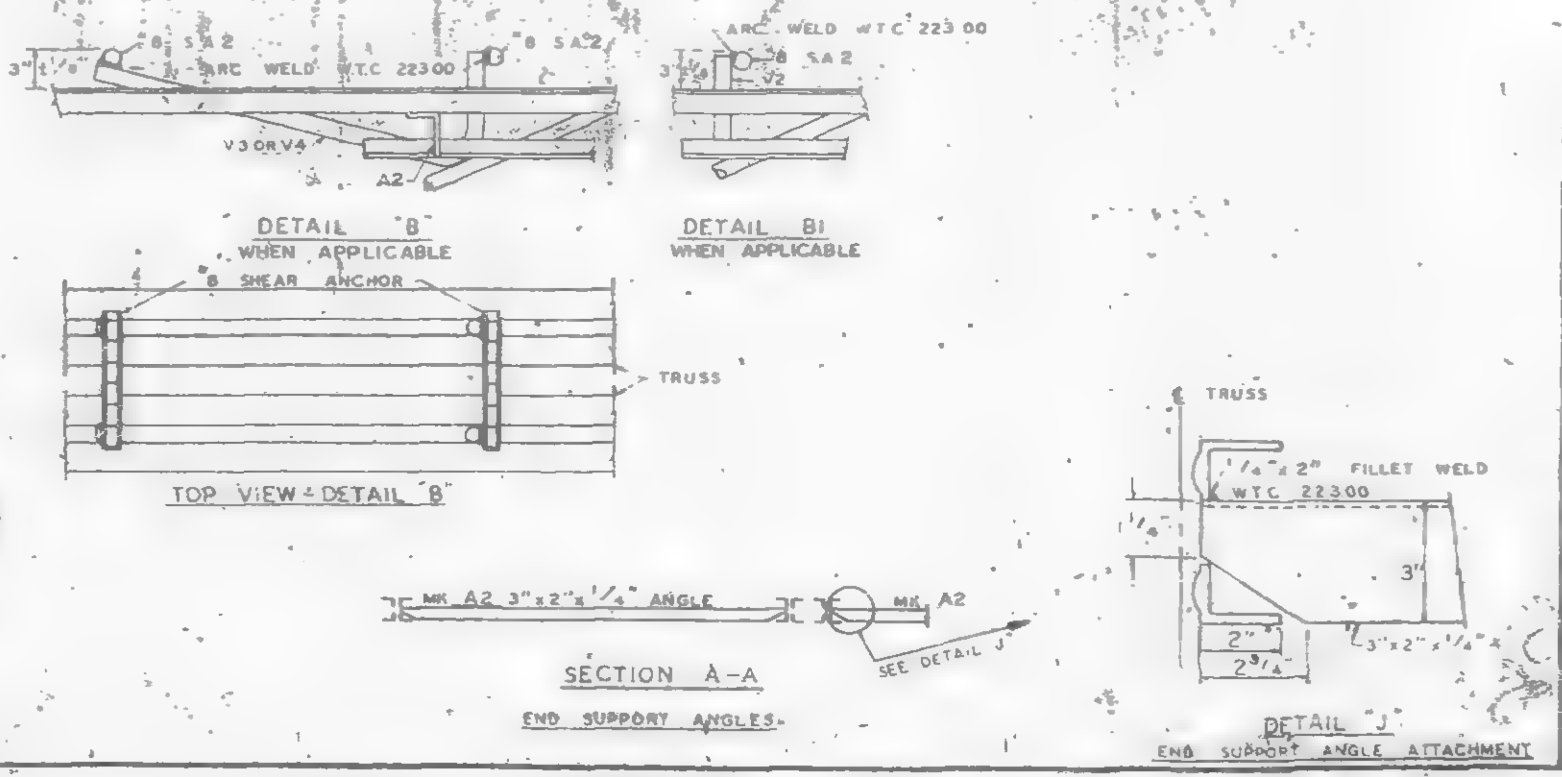
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4 15 & 16	7-22-68
7-AB4 42	10-15-68
SA-124	1-6-69
7-AB3-43	1-6-69
7-AB1-24	1-6-69
7-AB2-8	7-22-68


2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
ARC WELD 223
COVER PLATE
DETAIL "A"
7 1/8"
FILLET WELD W.T.C. 223.00
SECTION D-D
7 1/8"
E
3"
ARC WELD WTC 223.00 (1/4"x3") EA. SIDE E
DETAIL "C"
WELD WTC 223.00
3"x3/8"x0'-3"
PATCH PLATE MK PP2
SECTION E-E

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.


COVER PLATE B
COVER PLATE B
2" LAP
PP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
COVER PLATES .39 SA THICK
COVER PLATE
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00


3 1/4"
ARC WELD W.T.C. 223.00
#8 SA2
V3 OR V4
A2
DETAIL "B" WHEN APPLICABLE
ARC WELD W.T.C. 223.00
#8 SA2
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL "B"
MK A2 3"x2"x1/4" ANGLE
MK A2
SEE DETAIL "J"
SECTION A-A
END SUPPORT ANGLES
TRUSS
1/4"x2" FILLET WELD W.T.C. 223.00
3"
2"
3"x2"x1/4"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT

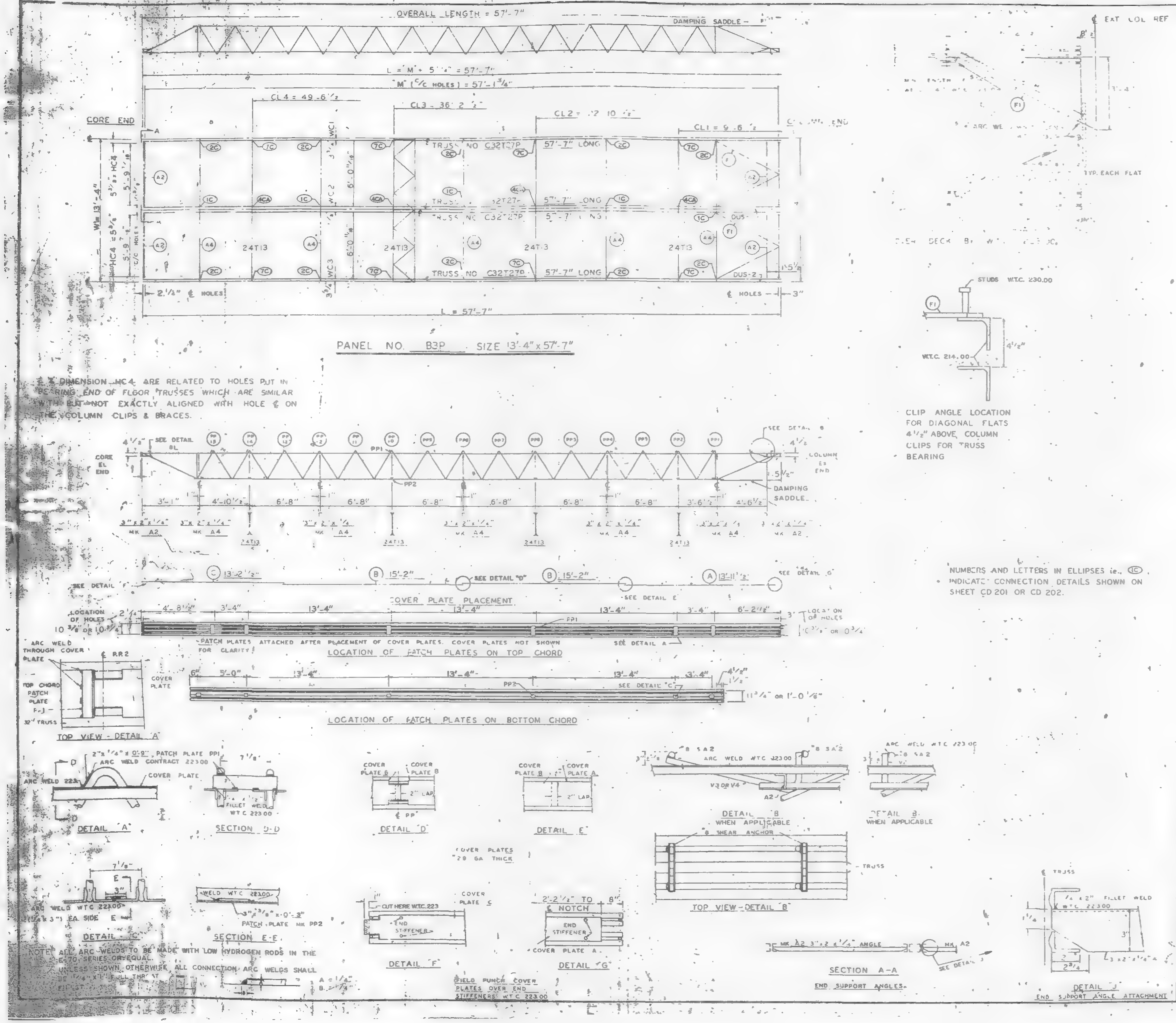
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)

PANEL B3N - 13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T M CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED BY A C WEBER	FABRICATION CONT. NO W.T.C. 221	SHEET NO FP B3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
L = "M" + 5 1/4" = 57'-7"
"M" (C/C HOLES) = 57'-1 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
W = 13'-4"
HC4
WC1
WC2
WC3
TRUSS NO. C32T27P 57'-7" LONG
24T13
DUS-2
2 1/4" ℄ HOLES
℄ HOLES
L = 57'-7"
PANEL NO. B3P SIZE 13'-4" x 57'-7"
SEE DETAIL "BL"
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
MK A2
MK A4
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
DETAIL "B" WHEN APPLICABLE
TOP VIEW - DETAIL "B"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
COVER PLATES 20 GA THICK

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NUMBERS AND LETTERS IN ELLIPSES ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 1/2" FULL THROAT

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T27P	4	C32T27P-57'-7"	ST227P
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
[illegible] ANGLE	A2	4	3"x2"x1/4"x5'-9 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
[illegible]	F	4	2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	[illegible]	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	12	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-3 7/8"	ST298
	DUS 2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

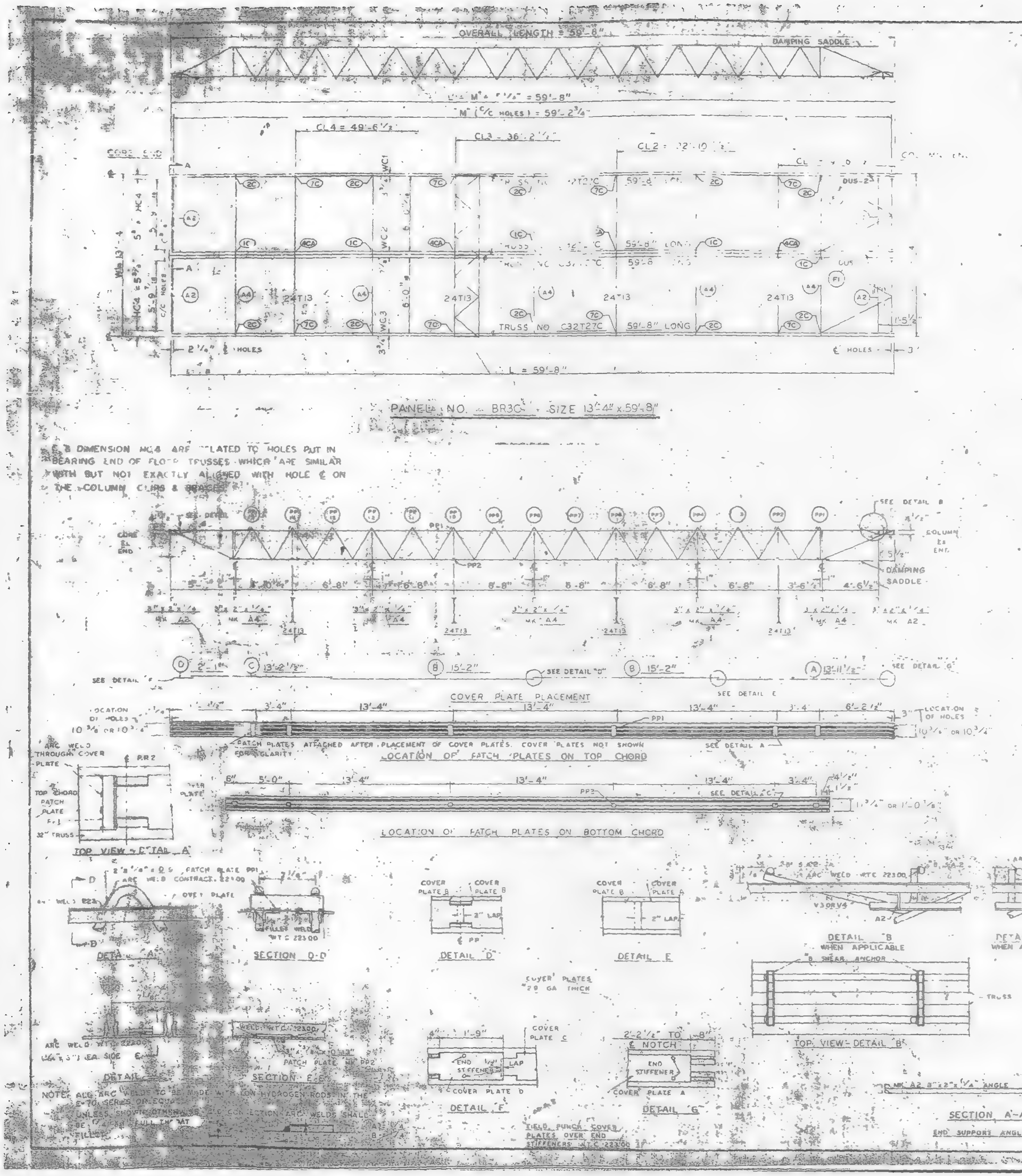
REF DRWG	
7-A84-3	10-15-68
7-A84-15 & 6	7-22-68
7-A84-42	10-15-68
SA 24	1-6-69
7-A83-43	1-6-69
7-A8 24	1-6-69
7-A82-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (NORTH)
PANEL B3P - 13'-4" x 57'-7"
BLDG. B FLOORS 78 (WEST)

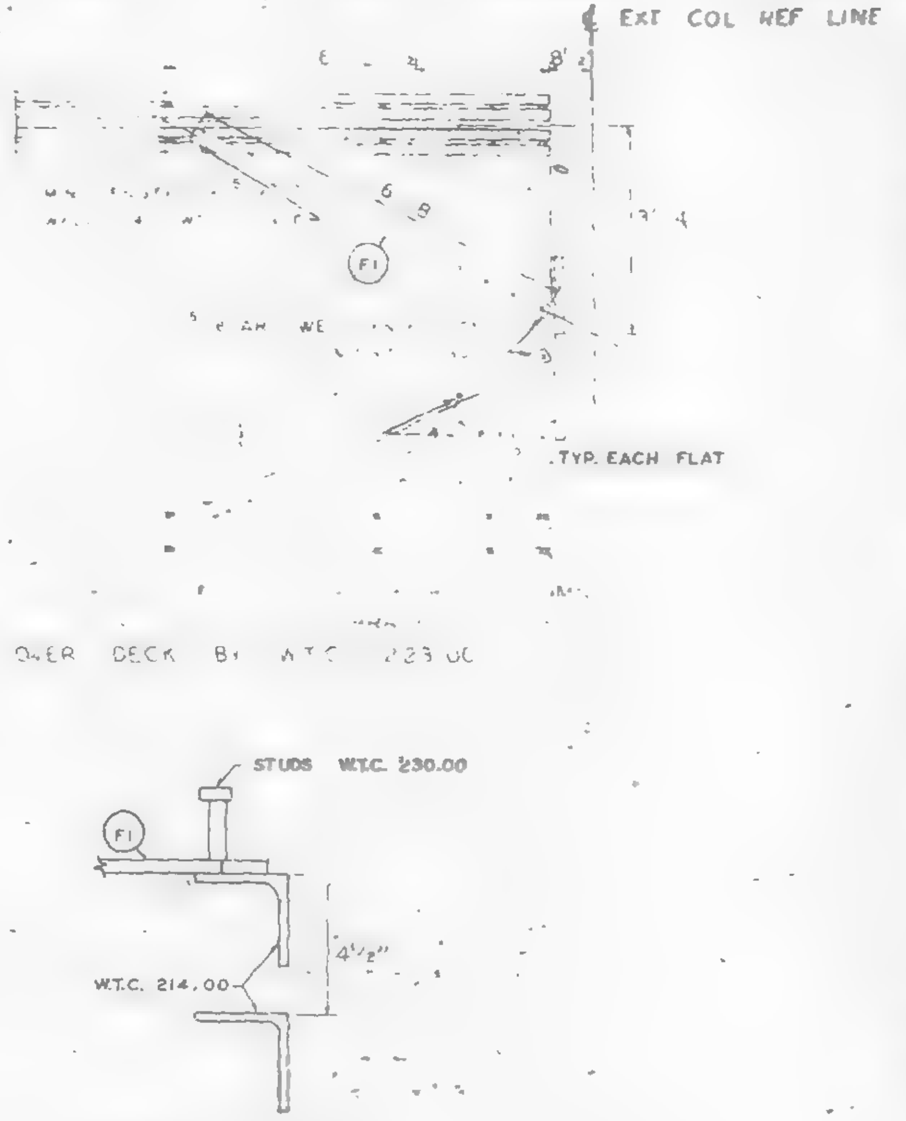
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 A83 43	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 7/3/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.G. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP B3P


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
M (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 - 36'-2 1/2"
CL2 = 22'-10 1/2"
TRUSS NO C32T27C 59'-8" LONG
24T13
L = 59'-8"
€ HOLES
PANEL NO. BR3C SIZE 13'-4" x 59'-8"
SEE DETAIL B
COLUMN
DAMPING SADDLE
CORE END
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL E
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW - DETAIL B
TRUSS
COVER PLATES 20 GA THICK
DETAIL F
DETAIL G
END STIFFENER
SECTION E-E
SECTION A-A
END SUPPORT ANGLES
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
ARC WELD W.T.C. 223.00

C & B DIMENSION MC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQU[illegible] UNLESS SHOWN OTHERWISE [illegible] ARC WELDS SHALL BE [illegible] FULL THROAT


EXT COL REF LINE
TYP. EACH FLAT
OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"

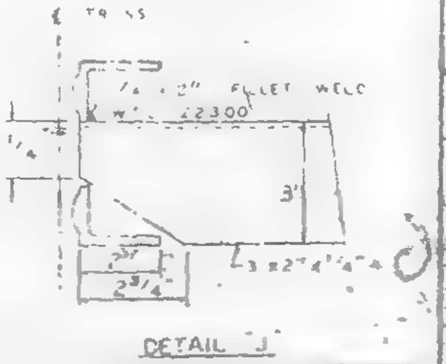
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T2	4	C32T - 59' 8"	ST2
[illegible]	T	4	[illegible]	ST2
[illegible]	[illegible]	[illegible]	[illegible]	ST4
	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	[illegible]	[illegible]	[illegible]	[illegible]
	PP	[illegible]	[illegible]	[illegible]
COVER PLATES	[illegible]	[illegible]	[illegible]	[illegible]
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0' 8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0	ST 400

NUMBERS AND LETTERS IN ELLIPSES ie., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4 [illegible]	10-15-68
7-AB4 [illegible] 5 6	7-22-68
7-AB4 42	10-15-68
SA [illegible]	[illegible] 6 69
7 AB3 44	1-6-69
7-AB[illegible]-24	1-6-69
7-AB2 B	7-22-68

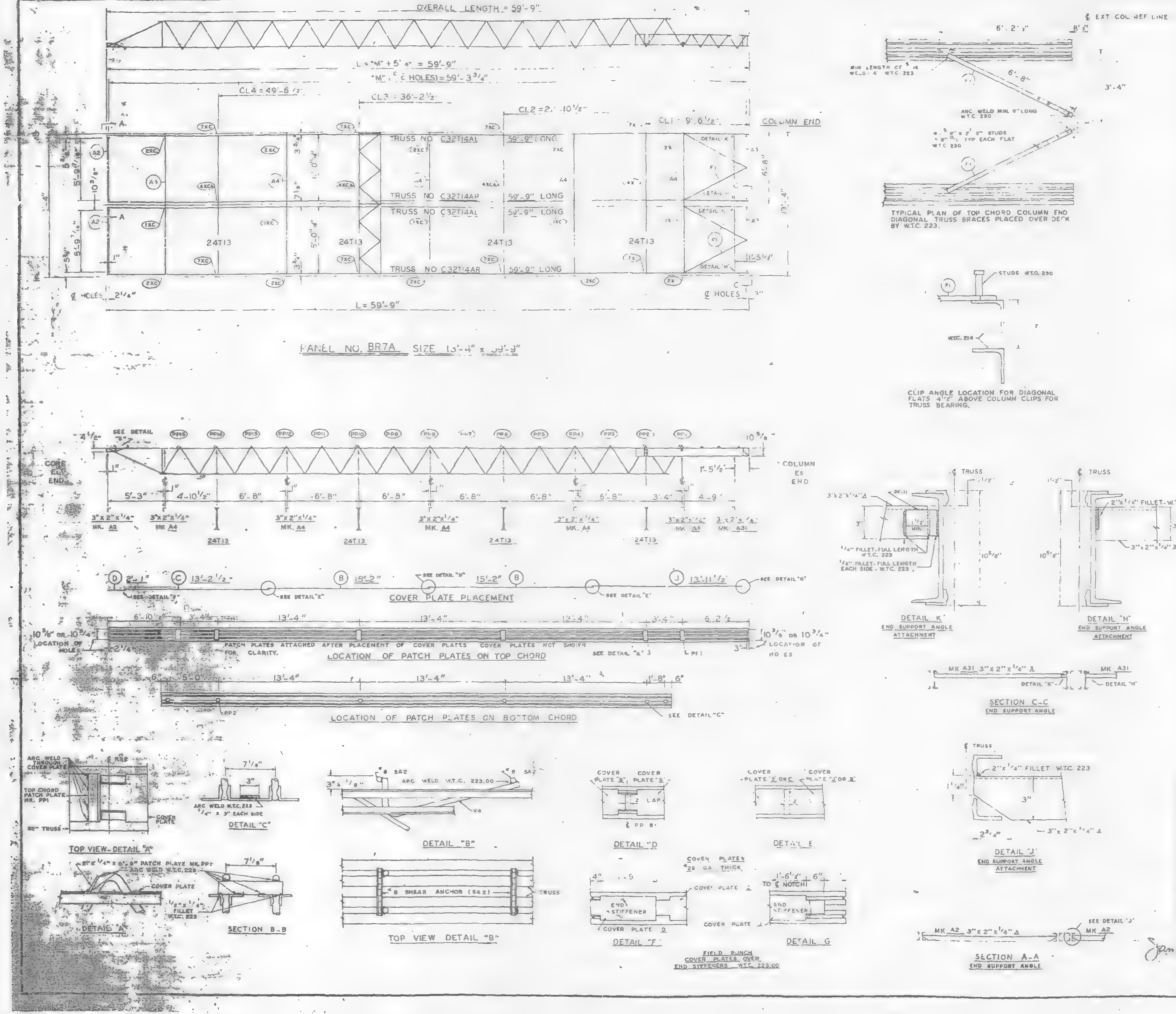

FILLET WELD 223.00
3"
2 3/4"
SEE DETAIL J

DETAIL J
END SUPPORT ANGLE ATTACHMENT

FLOOR PANEL DETAILS
FOR
[illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (SOUTH)
PANEL BR3C 13'-4" x 59'-8"
BLDG B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. AB3 44	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 4/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. ENG.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FD BR3C


OVERALL LENGTH = 59'-9"
L = "M" + 5'-4" = 59'-9"
"M" (¢ C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
TRUSS NO C32T14AL 59'-9" LONG
TRUSS NO C32T14AR 59'-9" LONG
24T13
DETAIL K
DETAIL H
¢ HOLES 2 1/4"
¢ HOLES 3"
L = 59'-9"
PANEL NO. BR7A SIZE 13'-4" x 59'-9"
SEE DETAIL "B"
CORE ES END
COLUMN ES END
5'-3" 4'-10 1/2" 6'-8" 6'-8" 6'-9" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1" C 13'-2 1/2" B 15'-2" B 15'-2" J 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
13'-4" 13'-4" 13'-4" 1'-8" 6"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
¢ EXT COL REF LINE
6'-2 1/2"
6'-8"
3'-4"
MIN LENGTH OF WELD 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
¢ TRUSS
3"x2"x1/4" ∠
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4" ∠
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
DETAIL "K"
DETAIL "H"
SECTION C-C END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
22" TRUSS
TOP VIEW - DETAIL "A"
2"x1/4"x0'-3" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE
DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
1 1/2"x1/4" FILLET W.T.C. 223
SECTION B-B
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "C" OR "J"
COVER PLATE "C" OR "B"
DETAIL E
COVER PLATES #20 GA. THICK
END STIFFENER
COVER PLATE
DETAIL "F"
TO ¢ NOTCH
END STIFFENER
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
¢ TRUSS
2"x1/4" FILLET W.T.C. 223
3"
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A2
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK.	PCS	SIZE	DRWG
FLOOR TRUSSES	14AL	2	32T14AL x 59'-9"	ST 214AL
	14AR	2	32T14AR x 59'-9"	ST 214AR
BRIDGING TRUSSES	[illegible]	[illegible]	[illegible] x 13'-3"	ST 213
3"x2"x1/4" ANGLE	A2	2	[illegible] x 5'-11 9/16"	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
CLOSURE PLATE	[illegible]	[illegible]	[illegible] 1/8"	ST 402
DIAGONAL PLATES	[illegible]	4	[illegible] x 5'-8"	ST 402
PATCH PLATES	PP1	2	[illegible]	ST 400
	PP2	12	3 x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x5'-2"	ST 303
	C	2	9"x.0135"x13'-2 1/2"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0135"x13'-11 1/2"	ST 304
ANGLE CLIPS	[illegible]	6	2"x1 1/2"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB	5	" Ø x 1'-3"	ST 400
CONNECTION PLATES	P	4	[illegible] x 0'-6 1/2"	ST 400
	P2	4	[illegible] x .39" x 0'-9"	ST 400
	P3	4	4" x [illegible] x .39" x 1'-0"	ST 400
	P9	4	[illegible] x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 219.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

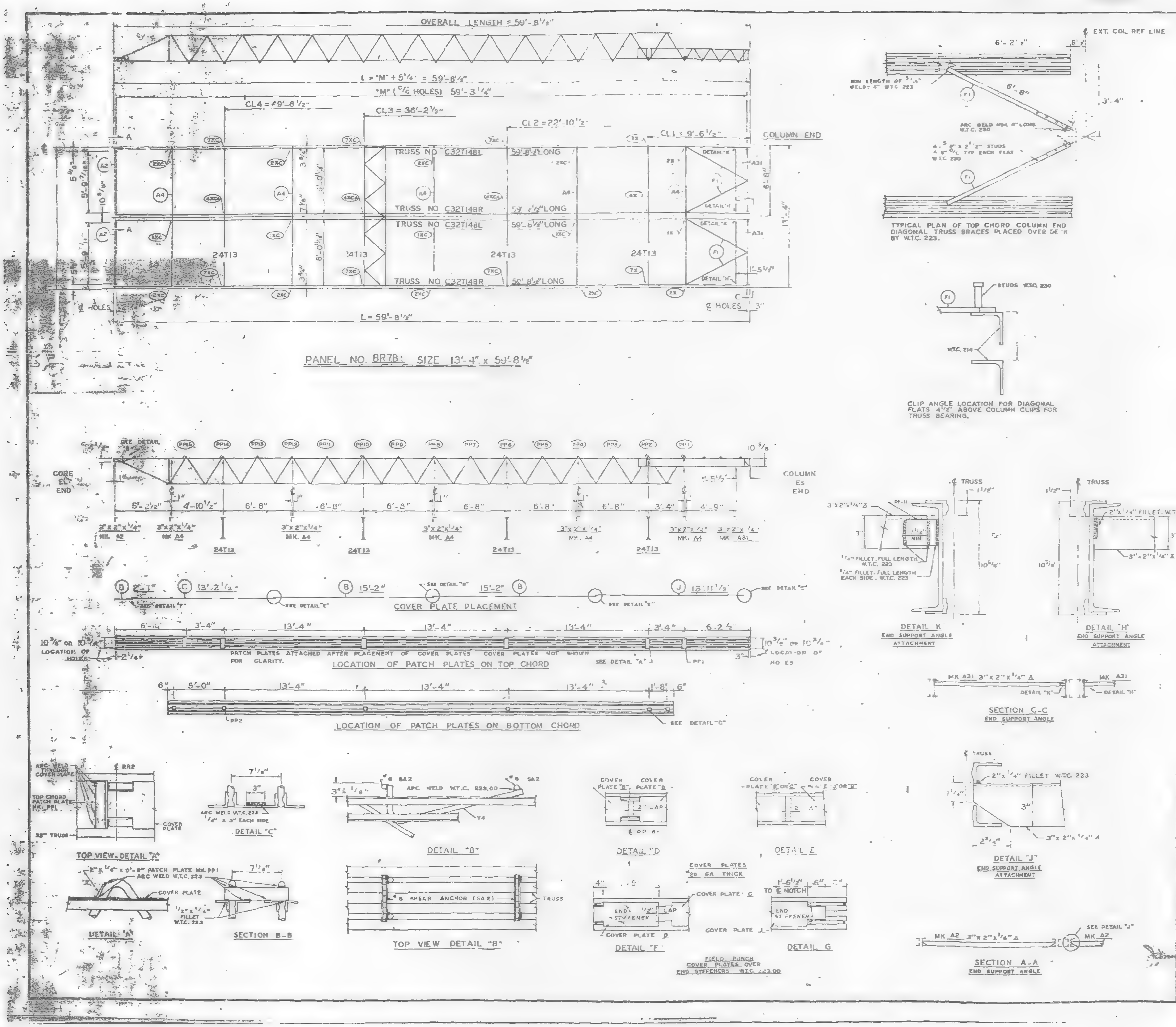
A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

REF DRWG.		
	7-AB3-27	10-4-68
	7-AB1-3	10-4-68
	7-AB2-8	7-22-68
	7-AB4-28	7-22-68
	SB-124	3-24-6[illegible]
	7-AB3-24	8-15-68

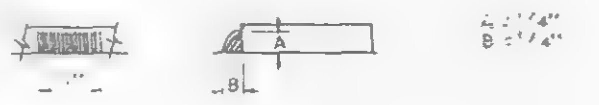
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
BLDG B FLOORS 25 (EAST & WEST) 59 (WEST)
PANEL BR7A - 13'-4 x 59'-9

FABRICATION BY Laclede STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27
PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/6/69
DRAWN BY Luh DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV
DETAILED BY R.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR7A


OVERALL LENGTH = 59'-8½"
L = "M" + 5¼" = 59'-8½"
"M" (C/C HOLES) 59'-3¼"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO C32T14BL 59'-8½" LONG
TRUSS NO C32T14BR 59'-8½" LONG
TRUSS NO C32T14BL 59'-8½" LONG
TRUSS NO C32T14BR 59'-8½" LONG
24T13
A2
A4
A31
DETAIL "K"
DETAIL "H"
13'-4"
1'-5½"
℄ HOLES 3"
L = 59'-8½"
PANEL NO. BR7B: SIZE 13'-4" x 59'-8½"
EXT. COL REF LINE
6'-2½"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 223
4-5/8" x 2½" STUDS 4-6" C/C TYP EACH FLAT W.T.C. 230
F1
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "A"
PP16 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE EL END
COLUMN ES END
5'-2½" 4'-10½" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x¼" MK. A2
3"x2"x¼" MK. A4
3"x2"x¼" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2½"
B 15'-2"
B 15'-2"
J 13'-11½"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
6'-0" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2½"
10⅞" OR 10¾" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TRUSS
3"x2"x¼" A
PF-11
¼" FILLET-FULL LENGTH W.T.C. 223
¼" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10⅝"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x¼" FILLET-W.T.C. 223
3"x2"x¼" A
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x¼" A
SECTION C-C END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223 ¼" x 3" EACH SIDE
DETAIL "C"
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
COVER PLATE "B"
PP 8
DETAIL "D"
DETAIL E
2"x¼" FILLET W.T.C. 223
3"x2"x¼" A
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
2"x¼"x0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
½"x¼" FILLET W.T.C. 223
DETAIL "A"
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATES 20 GA THICK
COVER PLATE C
END STIFFENER
LAP
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
TO ℄ NOTCH
DETAIL G
MK A2 3"x2"x¼" A
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	[illegible]	PCS	SIZE	DRWG
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8½"	ST 214BL
	T14BR	2	C32T14BR x 59'-8½"	ST 214BL
BRIDGING TRUSSES	[illegible]	4	24T13 x 13'-3"	ST 213
3"x2"x¼" ANGLE	A2	2	3"x2"x¼"x5'-11 9/16"	ST 403
	A4	5	3"x2"x¼"x13'-3"	ST 403
	A31	2	3"x2"x¼"x5'-8 [illegible]	ST 410
CLOSURE PLATES	[illegible]	2	3"x¼"x[illegible] 2⅜"	ST 4[illegible]2
DIAGONAL FLATS	F	4	[illegible]x⅜"x6'-8"	ST 402
PATCH PLATES	PP1	2	2"x¼"x0'-9"	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x15'-2"	ST 303
	C	2	9"x.0135"x13'-2½"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0155"x13'-11½"	ST 304
ANGLE CLIPS	C1	16	2"x1½"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	[illegible]	2	[illegible]-3"	ST 400
CONNECTION PLATES	P1	4	3½"x⅜"x0'-6½"	ST 400
	P2	4	4½"x.39"x0'-9"	ST 400
	P3	4	4½"x.39"x1'-0"	ST 400
	P9	4	3"x½"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS. ie. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.



NO.	DATE	REVISION	BY

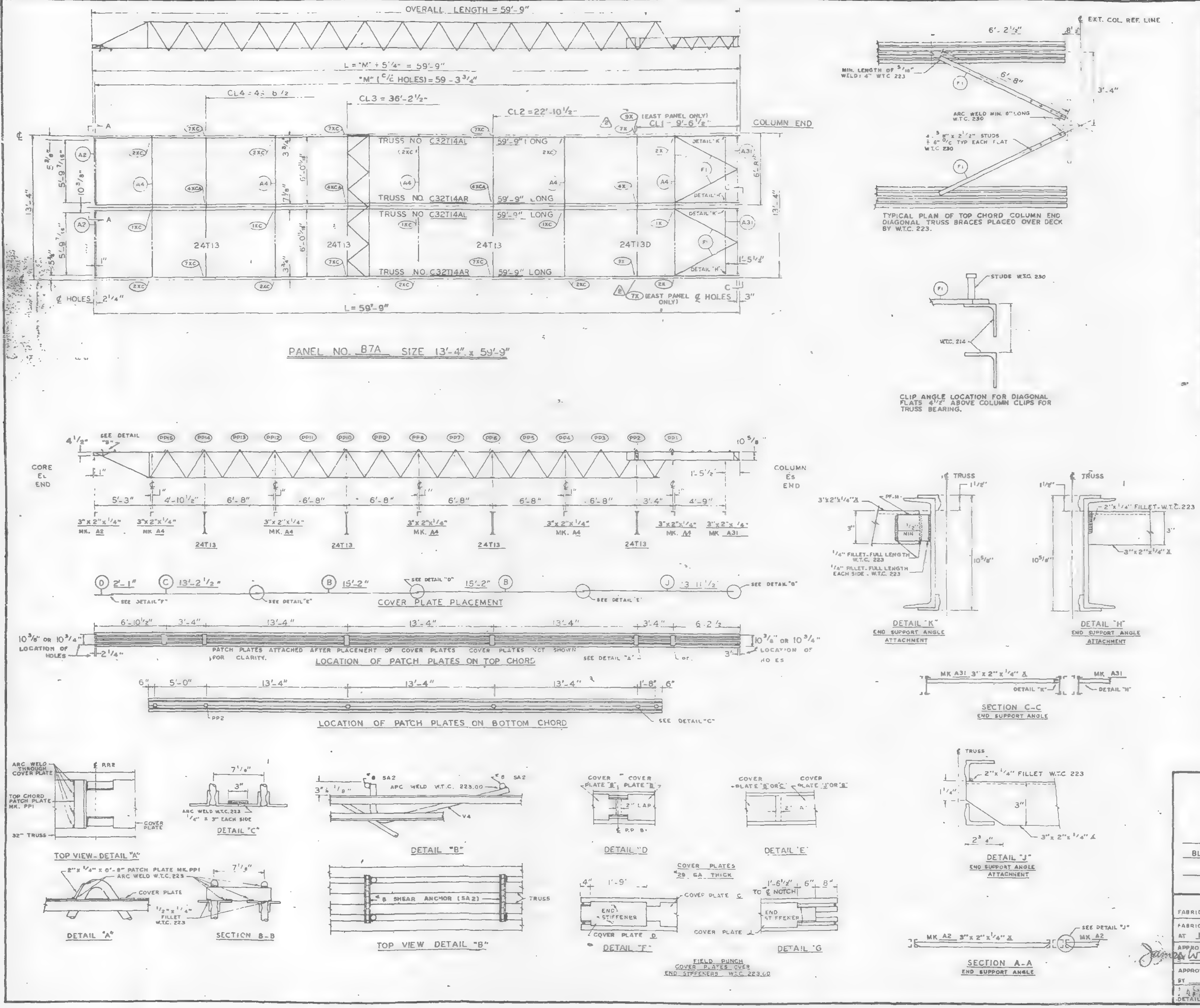
REF DRWG.	
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-6	7-22-68
7-AB4-28	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 5C (WEST)

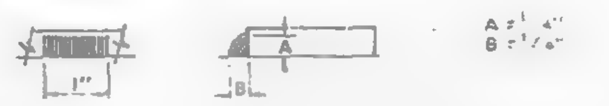
PANEL BR7B-13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-[illegible] PLATE
APPROVED FOR FABRICATION [illegible] FOR PONYA DATE 6/6/69
DRAWN BY [illegible] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR7B


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 4 6 1/2
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 - 9'-6 1/2"
(EAST PANEL ONLY)
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T13
24T13D
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
(EAST PANEL ONLY) ℄ HOLES 3"
L = 59'-9"
PANEL NO. B7A SIZE 13'-4" x 59'-9"
6'-2 1/2"
℄ EXT. COL. REF. LINE
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
CORE EL END
COLUMN E END
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3" x 2" x 1/4" MK. A2
3" x 2" x 1/4" MK. A4
3" x 2" x 1/4" MK. A31
24T13
COVER PLATE PLACEMENT
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
6'-10 1/2"
13'-4"
6'-2 1/2"
10 3/8" or 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
5'-0"
1'-8"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ TRUSS
PF-1
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2" x 1/4" FILLET - W.T.C. 223
3" x 2" x 1/4"
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3" x 2" x 1/4"
SECTION C-C END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS
TOP VIEW - DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "A"
1/2" x 1/4" FILLET W.T.C. 223
SECTION B-B
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TOP VIEW DETAIL "B"
COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #29 GA. THICK
END STIFFENER
COVER PLATE C
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
2" x 1/4" FILLET W.T.C. 223
3" x 2" x 1/4"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3" x 2" x 1/4"
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13C	1	24T13D x 13'-3"	BT 213D
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-1		3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	18	2" x 1 1/2" x .25" x 8"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠2 ⚠1	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	3* 4	4 1/2" x .39" x 0'-9"	ST 400
	P3	3* 4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409
	P10	1*	4 1/2" x .39" x 0'-5"	ST 409
	P11	1*	3" x 1/4" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 62 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



⚠2 MATERIAL MARKED (*) IS FOR WEST PANELS ONLY.

NO.	DATE	REVISION	BY
⚠2	6-13-69	AS NOTED	G.D.C
1	5-12-69	AS NOTED	G.D.C.

REF DRWG.		
	7-AB3-26	10-4-68
	7-AB1-13	10-4-68
	7-AB2-8	7-22-68
	7-AB4-28	7-22-68
	SB-124	3-24-69
	7-AB3-24	8-15-68

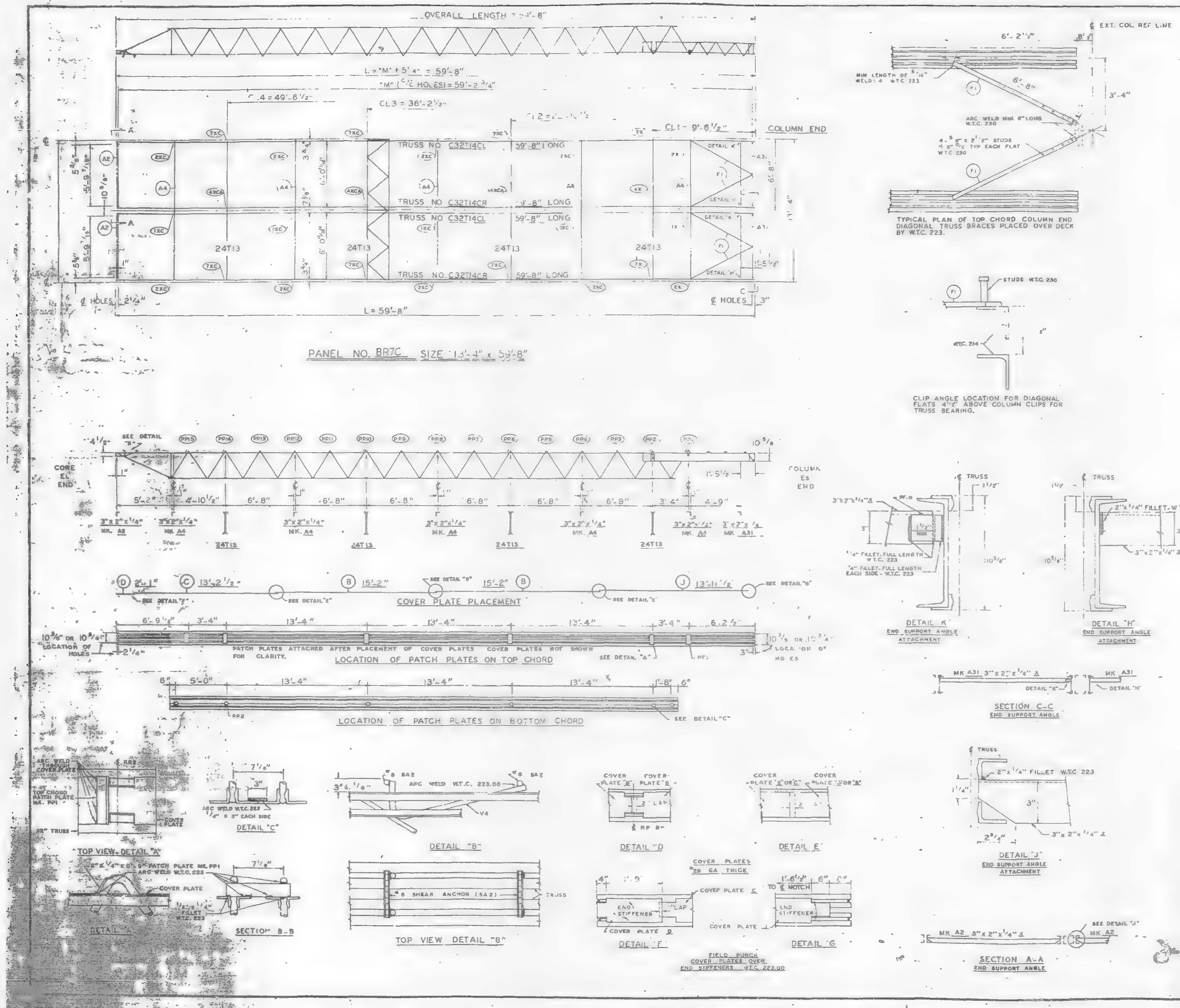
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL B7A-13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-26	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 6/20/69	DRAWN BY Luk DATE MAY 6, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7A


OVERALL LENGTH = 59'-8"
L = "M" + 5¼" = 59'-8"
"M" (℄ HOLES) = 59'-2¾"
CL4 = 49'-6½"
CL3 = 36'-2½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
24T13
DETAIL "K"
DETAIL "H"
℄ HOLES 2¼"
℄ HOLES 3"
L = 59'-8"
13'-4"
PANEL NO. BR7C SIZE 13'-4" x 59'-8"
CORE END
COLUMN END
3"x2"x¼" MK. A2
3"x2"x¼" MK. A4
3"x2"x¼" MK. A31
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ EXT. COL. REF LINE
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION B-B
DETAIL "C"
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
#8 SHEAR ANCHOR (SA2)

REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES		4	24T13 x 13'-3"	ST 213
3"x 2"x ¼" ANGLE	A2	2	3"x2"x¼"x 5'-11⁹⁄₁₆"	ST 403
	A4	[illegible]	[illegible]	ST 403
	A31	2	[illegible] x 5'-8 [illegible]	ST 410
CLOSURE PLATES	[illegible]	[illegible]	[illegible]	ST 4.2
DIAGONAL FLATS	F	4	[illegible] x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP	[illegible]	2" x ¼" x 0'-9	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2½"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	16	2"x 1½"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	[illegible]	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3½"x ⅜"x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	4	4½" x .39" x 1'-0"	ST 400
	P9	4	3"x ½"x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 4" FULL THROAT FILLET.

A = ¼"
B = ¼"

NO	DATE	REVISION	BY

REF DRWG.

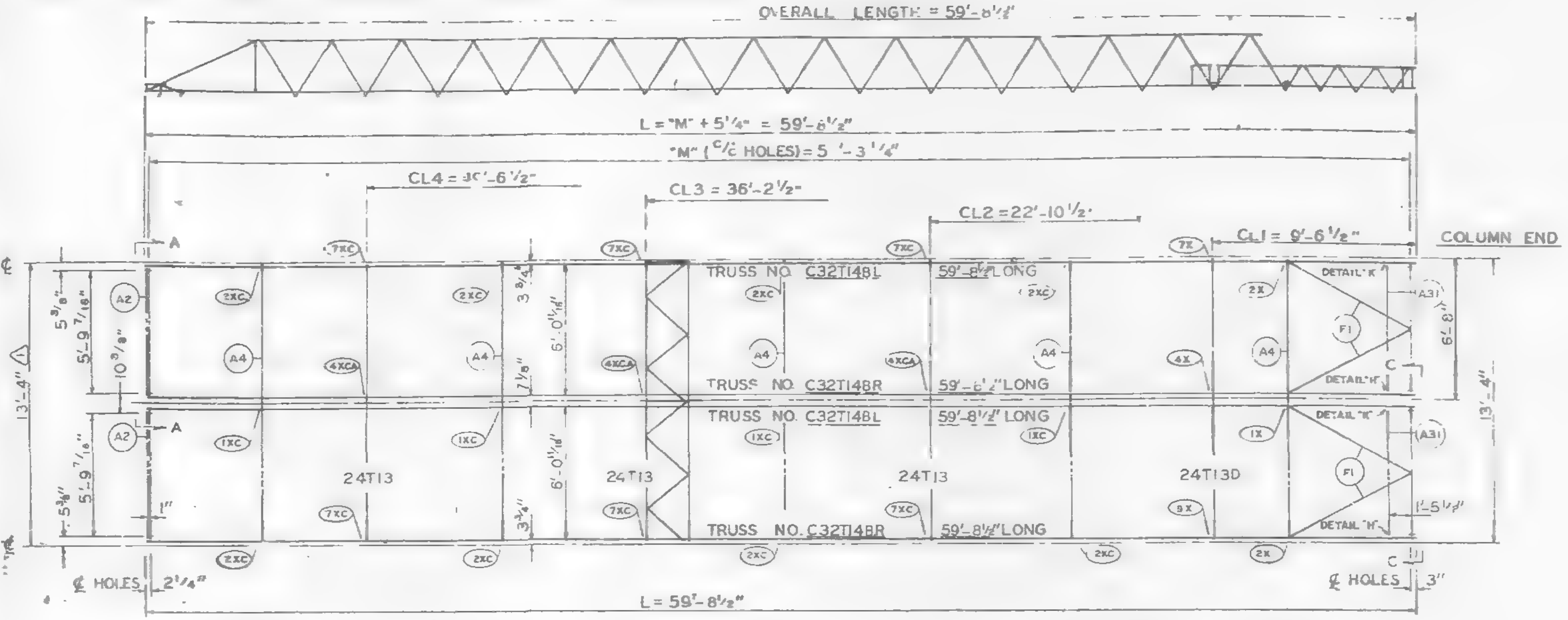
7-AB3-21	10-4-68
7-A31-13	10-4-68
7-A52-8	7-22-68
7-AB4-26	7-22-68
5B-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
[illegible] TRADE CENTER [illegible]
FOR
THE [illegible] NEW YORK AUTHORITY

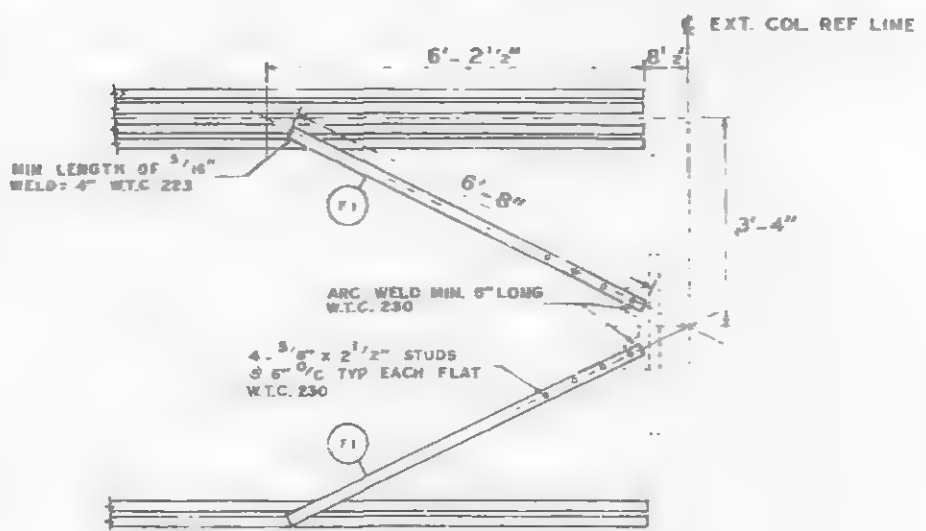
BLDG. B FLOORS 59 & 92 EAST)

PANEL BR7C-13'-4" x 59'-8"

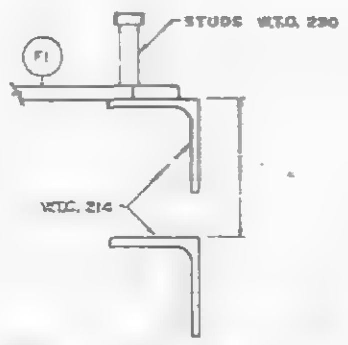
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-21	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 6/6/69	DRAWN BY [illegible] DATE MAY 8, 1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR7C


OVERALL LENGTH = 59'-8½"
L = "M" + 5¼" = 59'-8½"
"M" (C/C HOLES) = 59'-3¼"
CL4 = 50'-6½"
CL3 = 36'-2½"
CL2 = 22'-10½"
CL1 = 9'-6½"
COLUMN END
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
TRUSS NO. C32T148L 59'-8½" LONG
TRUSS NO. C32T148R 59'-8½" LONG
24T13
24T13
24T13
24T13D
A2
A4
A31
F1
DETAIL "K"
DETAIL "H"
7XC
2XC
4XCA
1XC
7X
2X
4X
1X
9X
13'-4"
5⅜"
5'-9 7/16"
10⅜"
3¾"
6'-0 11/16"
7⅛"
1"
6'-8"
1'-5½"
℄ HOLES 2¼"
℄ HOLES 3"
L = 59'-8½"
A
C

PANEL NO. B7B SIZE 13'-4" x 59'-8½"


℄ EXT. COL. REF LINE
6'-2½"
8½"
3'-4"
6'-8"
F1
MIN LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 6" LONG W.T.C. 230
4-⅝" x 2½" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230

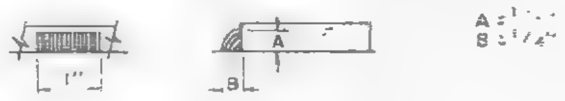
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

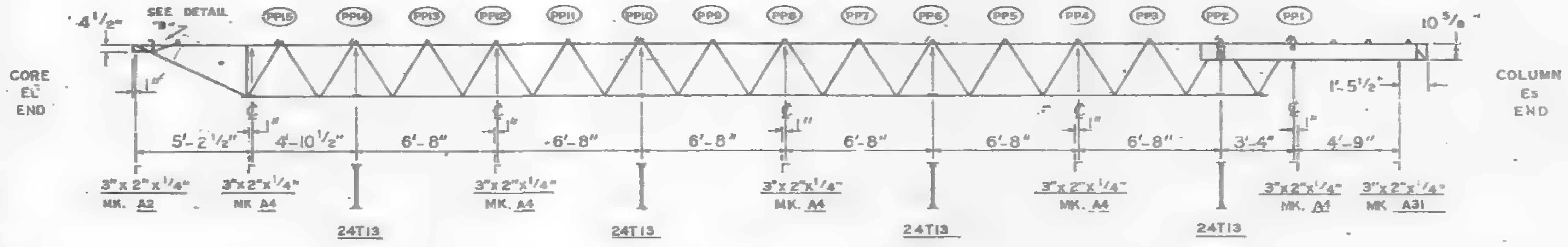

F1
STUDS W.T.C. 230
W.T.C. 214

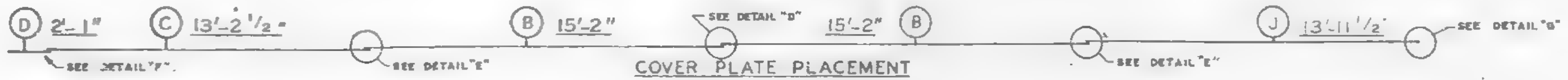
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T148L	2	C32T148L x 59'-8½"	ST 2148L
	T148R	2	C32T148R x 59'-8½"	ST 2148L
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3" x 2" x ¼" ANGLE	A2	2	3" x 2" x ¼" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x ¼" x 13'-3"	ST 403
	A31	2	3" x 2" x ¼" x 5'-8⅛"	ST 410
CLOSURE PLATES	PF 11	2	3" x ¼" x 0'-2⅜"	ST 4 2
DIAGONAL FLATS	F1	4	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x ¼" x 0'-9"	ST 400
	PP2	12	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2½"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	16	2" x 1½" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3½" x ⅜" x 0'-6½"	ST 400
	P2	3	4½" x .39" x 0'-9"	ST 400
	P3	3	4½" x .39" x 1'-0"	ST 400
	P9	4	3" x ½" x 1'-2"	ST 409
	P10	1	4½" x .39" x 0'-5"	ST 409
	P11	1	3" x ¼" x 0'-6"	ST 409

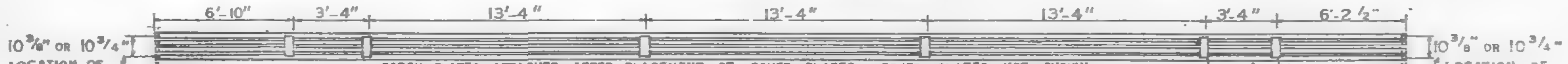
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x ¼" FULL THROAT FILLET.




4½"
SEE DETAIL "B"
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
10⅝"
CORE EL END
COLUMN Es END
1"
1'-5½"
5'-2½"
4'-10½"
6'-8"
3'-4"
4'-9"
3" x 2" x ¼" MK. A2
3" x 2" x ¼" MK. A4
3" x 2" x ¼" MK. A31
24T13

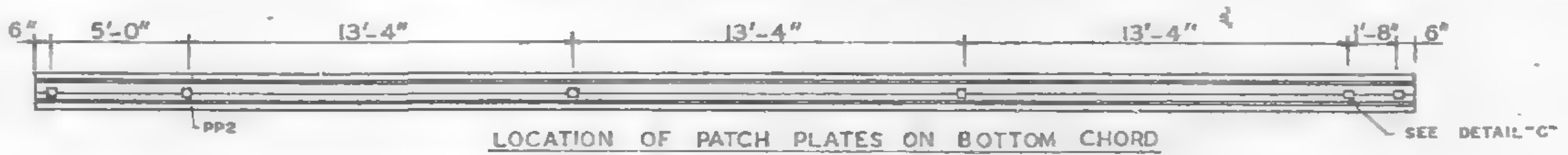

D 2'-1"
C 13'-2½"
B 15'-2"
B 15'-2"
J 13'-11½"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"

COVER PLATE PLACEMENT

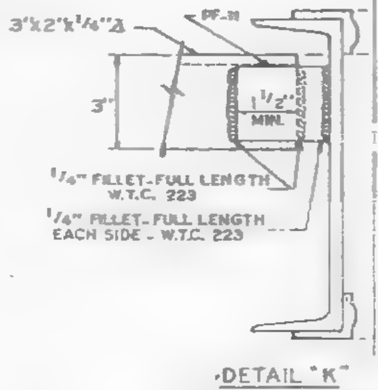

6'-10"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2½"
10⅜" OR 10¾" LOCATION OF HOLES
2¼"
3"
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

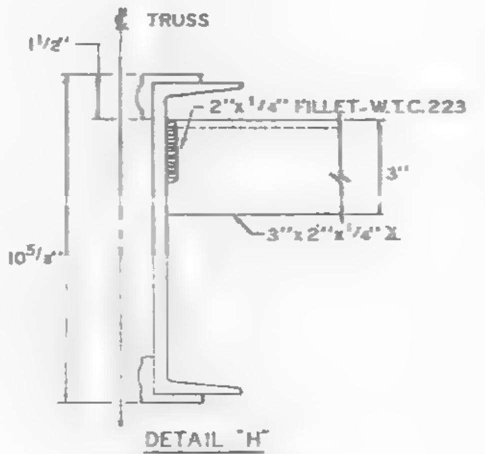
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
13'-4"
13'-4"
1'-8"
6"
PP2
SEE DETAIL "C"

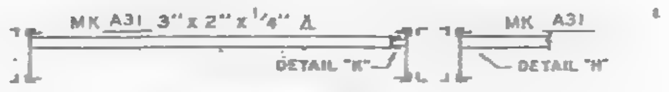
LOCATION OF PATCH PLATES ON BOTTOM CHORD


℄ TRUSS
1½"
3" x 2" x ¼" ∠
PF-11
3"
1½" MIN.
10⅝"
¼" FILLET-FULL LENGTH W.T.C. 223
¼" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223

DETAIL "K"
END SUPPORT ANGLE ATTACHMENT


℄ TRUSS
1½"
2" x ¼" FILLET-W.T.C. 223
3"
10⅝"
3" x 2" x ¼" ∠

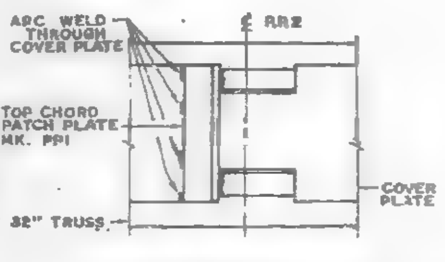
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT


MK A31 3" x 2" x ¼" ∠
DETAIL "K"
MK A31
DETAIL "H"

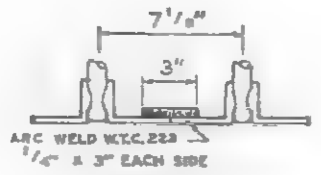
SECTION C-C
END SUPPORT ANGLE

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	GD

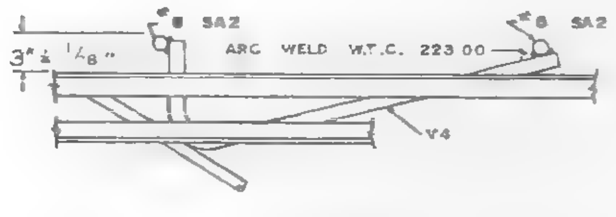
REF DRWG.		
	7-AB3-26	10-4-68
	7-AB1-13	10-4-68
	7-AB2-8	7-22-68
	7-AB4-28	7-22-68
	SB-124	3-24-69
	7-AB3-24	8-15-68


ARC WELD THROUGH COVER PLATE
℄ RR2
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS

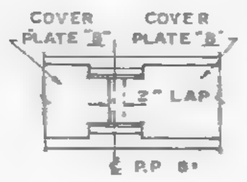
TOP VIEW-DETAIL "A"


7⅛"
3"
ARC WELD W.T.C. 223
¼" x 3" EACH SIDE

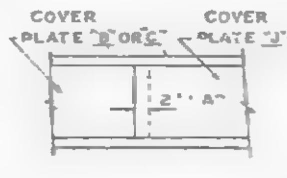
DETAIL "C"


3" ± ⅛"
#8 SA2
ARC WELD W.T.C. 223.00
#8 SA2
Y4

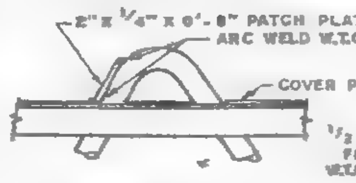
DETAIL "B"


COVER PLATE "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8

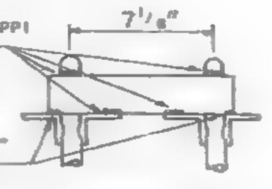
DETAIL "D"


COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" "A"

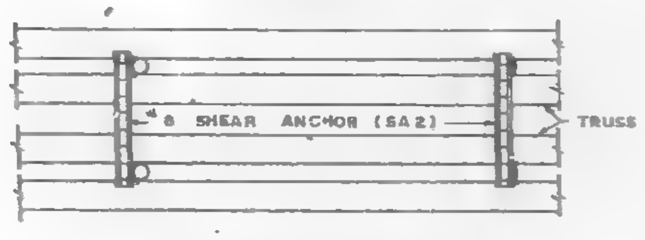
DETAIL "E"


2" x ¼" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"

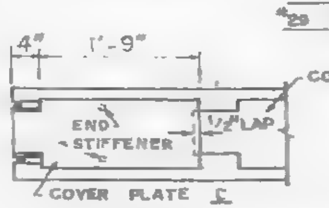

7⅛"
½" x ¼" FILLET W.T.C. 223

SECTION B-B

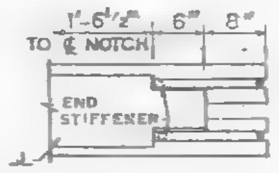

#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

COVER PLATES
#29 GA THICK

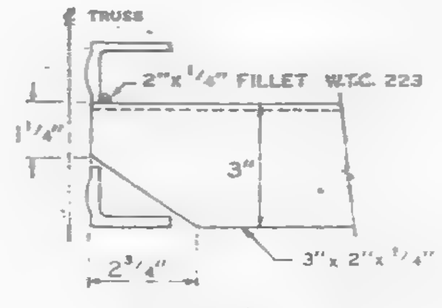

4"
1'-9"
COVER PLATE C
END STIFFENER
½" LAP
COVER PLATE C

DETAIL "F"

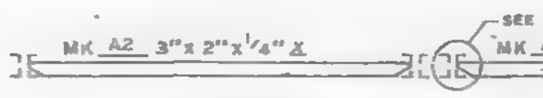

1'-6½"
6"
8"
TO ℄ NOTCH
END STIFFENER
COVER PLATE J

DETAIL "G"

FIELD PUNCH
COVER PLATES OVER
END STIFFENERS W.T.C. 223.00


℄ TRUSS
2" x ¼" FILLET W.T.C. 223
1¼"
3"
2¾"
3" x 2" x ¼" ∠

DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


MK A2 3" x 2" x ¼" ∠
SEE DETAIL "J"
MK A2

SECTION A-A
END SUPPORT ANGLE

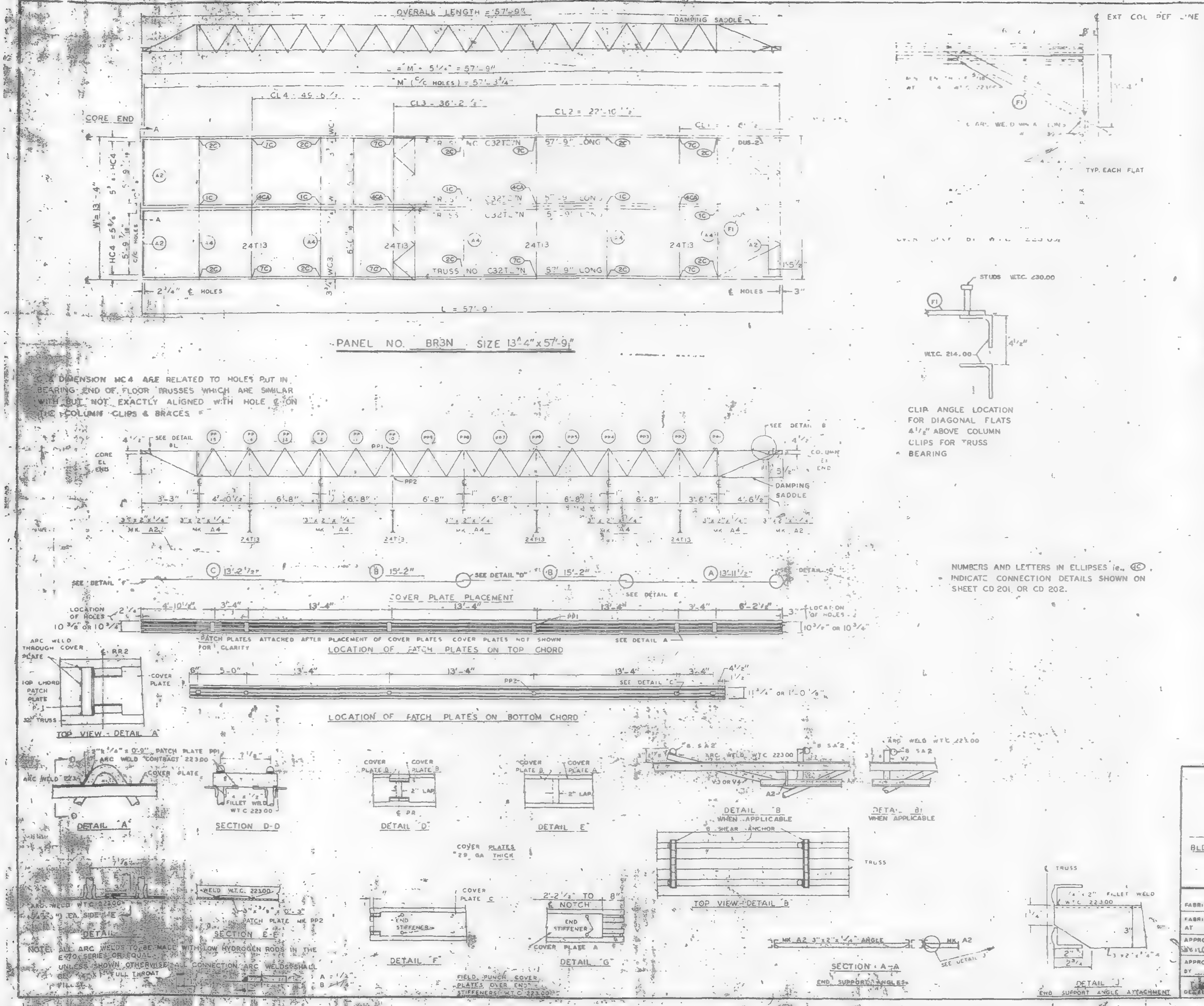
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 92 (WEST)

PANEL B78 - 13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-26	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE 6/6/69	DRAWN BY DATE MAY 8, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP B78


OVERALL LENGTH = 57'-9"
DAMPING SADDLE
L = M + 5 1/4" = 57'-9"
"M" (C/C HOLES) = 57'-3 3/4"
CL4 = 45'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 27'-10 1/2"
CORE END
W = 13'-4"
HC4 = 5 3/8"
TRUSS NO. C32T[illegible]N 57'-9" LONG
24T13
2 1/4" ℄ HOLES
℄ HOLES
L = 57'-9"
PANEL NO. BR3N SIZE 13'-4" x 57'-9"
SEE DETAIL B
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
3'-3"
4'-10 1/2"
6'-8"
3'-6"
4'-6 1/2"
MK A2
MK A4
13'-2 1/2"
15'-2"
13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
4'-10 1/2"
3'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
SEE DETAIL "C"
11 3/4" OR 1'-0 1/8"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE P-1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTACT 22300
DETAIL "A"
4 x 1/2" FILLET WELD W.T.C 22300
SECTION D-D
COVER PLATE B
COVER PLATE A
2" LAP
℄ PR
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA THICK
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
DETAIL "C"
COVER PLATE C
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 22300
#8 SA2
ARC WELD W.T.C 22300
A2
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
SHEAR ANCHOR
TRUSS
TOP VIEW DETAIL "B"
MK A2 3" x 2" x 1/4" ANGLE
SECTION A-A END SUPPORT ANGLES
SEE DETAIL "J"
1/4" x 2" FILLET WELD W.T.C 22300
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"
F1
A = 1/4"
B = 1/4"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x [illegible] FULL THROAT FILLET.

NUMBERS AND LETTERS IN ELLIPSES ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	[illegible]	4	C32T[illegible]-57'-9	ST2
[illegible]	[illegible]	4	24T[illegible]	BT[illegible]3
[illegible]	A4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COVER PLATE	B	4	9" x .0135 x 15-2	ST303
	C	2	9" x .0135" x 15-2 1/2	ST303
ANGLE CLIPS	C[illegible]	12	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2 x 3/8" x 3'-3 7/8"	ST298
	DUS-2	[illegible]	3 1/2 x 3 1/2 x 3/8" x 3' 6 7/8	ST298
CONNECTION BAR	CB1	4	1 1/8 x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-6"	ST 400
	P3	4	4 1/2" x .30" x 1'-0	ST 400

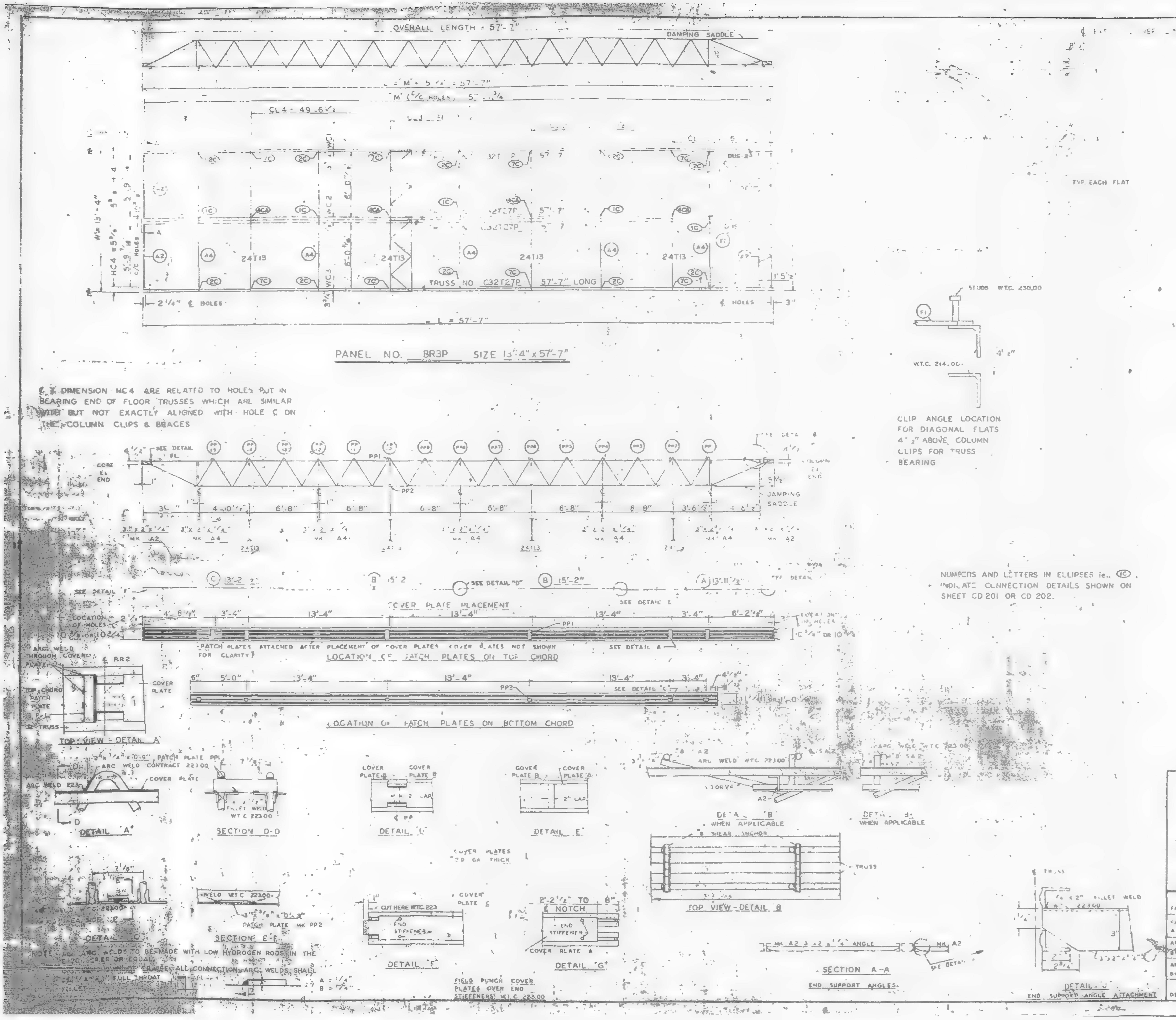
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-[illegible]	10-15-68
7-AB4-[illegible]	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-44	1-6-69
7-AB1-24	1-6-69
7-AB[illegible]	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)
PANEL BR3N-13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-44	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 7/31/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CH[illegible]RA DATE APRIL 28 1969	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILING [illegible]		FABRICATION CONT. NO. W.T.C 221	SHEET FD BR3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
M' C/C HOLES
CL4 - 49'-6 1/2"
W = 13'-4"
HC4 = 5 3/8"
WC1
WC2
WC3
24T13
TRUSS NO. C32T27P 57'-7" LONG
2 1/16" ℄ HOLES
L = 57'-7"
PANEL NO. BR3P SIZE 13'-4" x 57'-7"
SEE DETAIL
CORE EL END
DAMPING SADDLE
MK A2
MK A4
24T13
SEE DETAIL "D"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
ARC WELD THROUGH COVER PLATE
COVER PLATE
TOP CHORD PATCH PLATE
TRUSS
TOP VIEW - DETAIL A
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
DETAIL "A"
SECTION D-D
FILLET WELD W.T.C. 22300
COVER PLATE
2" LAP
DETAIL "C"
COVER PLATE B
COVER PLATE A
DETAIL "E"
COVER PLATES 20 GA THICK
ARC WELD W.T.C. 22300
DETAIL "B" WHEN APPLICABLE
DETAIL "D" WHEN APPLICABLE
SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL B
WELD W.T.C. 22300
PATCH PLATE MK PP2
SECTION E-E
DETAIL "C"
CUT HERE W.T.C. 223
END STIFFENER
DETAIL "F"
2'-2 1/2" TO 8" NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3 x 2 x 1/4 ANGLE
SECTION A-A
END SUPPORT ANGLES
FILLET WELD W.T.C. 22300
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS NOTED OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4 FULL THROAT FILLET
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
[illegible]	[illegible]	4	[illegible]	ST [illegible]
[illegible]	[illegible]	[illegible]	24T13	ST [illegible]
[illegible] PLATES	B	4	8" x 0135" x 15'-2"	ST 303
	C	2	5" x 0135" x 13'-2 1/2"	ST 303
[illegible]	[illegible]	12	2" x 1" 2" x 1/4" x 0'-6"	ST 400
[illegible]	[illegible]	8	#8 REBAR x 0'-9"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] x 3/8" x [illegible] 7/8"	ST 298
	[illegible]	[illegible]	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB	[illegible]	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO	DATE	REVISION	B

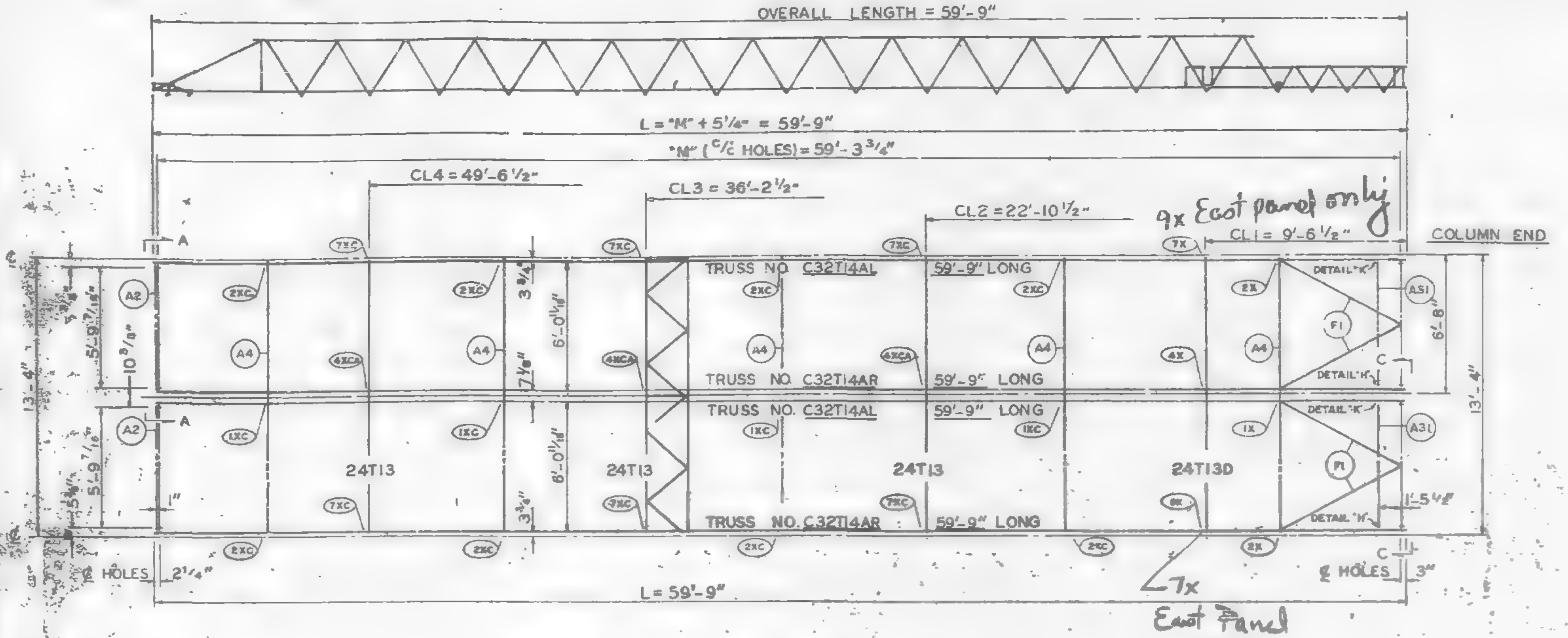
REF. DRWG.

[illegible] 42	10-15-68
[illegible] 5 & 6	7-22-68
[illegible] 42	10-15-68
5A [illegible] 4	1-6-69
7-A53-44	1-6-69
[illegible] 31 24	1-6-69
[illegible]	7-22-68

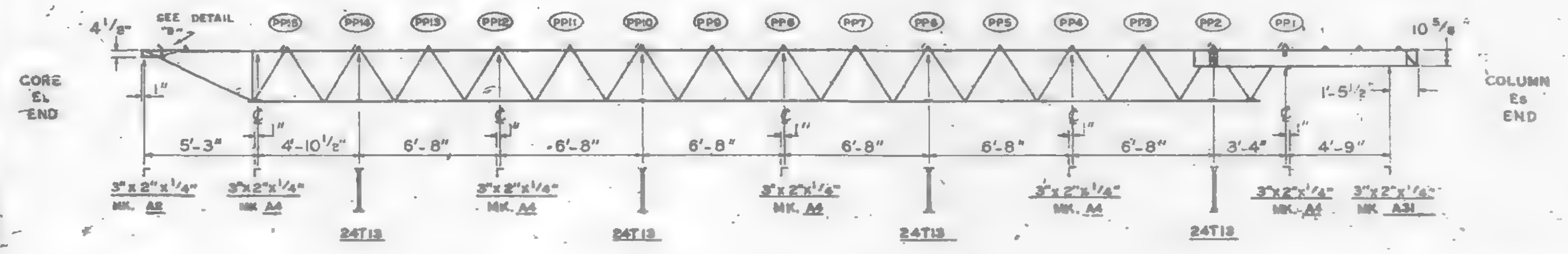
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

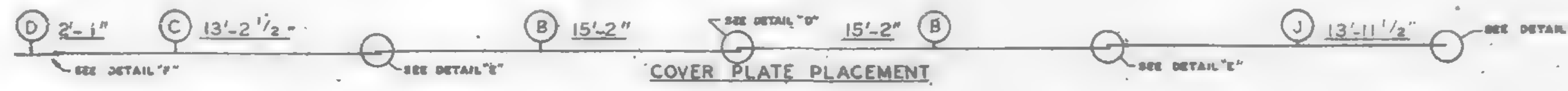
BLDG A FLOORS 78 (NORTH)
PANEL BR3P 13'-4" x 57'-7"
BLDG B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAW. NO. 7 A83 44
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/3/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T. M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF
DETAILED BY R. V. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET FP B1 [illegible]

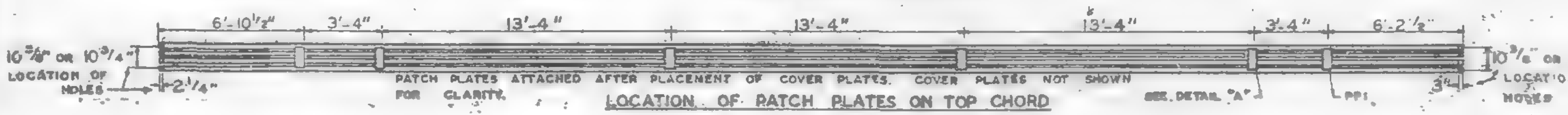

OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
9x East panel only
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
24T13
24T13
24T13
24T13D
A2
A4
A31
F1
7XC
2XC
4XCA
1XC
7X
2X
4X
1X
9X
DETAIL "K"
DETAIL "H"
A
C
13'-4"
6'-8"
10 3/8"
5'-9 7/16"
6'-0 11/16"
7 1/8"
3 3/4"
1'-5 1/2"
℄ HOLES
2 1/4"
3"
L = 59'-9"
7x
East Panel only

PANEL NO. B7A SIZE 13'-4" x 59'-9"


SEE DETAIL "B"
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
4 1/8"
10 5/8"
CORE ℄ END
COLUMN ℄ END
5'-3"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
1'-5 1/2"
3"x2"x1/4" MK. A2
3"x2"x1/4" MK. A4
3"x2"x1/4" MK. A31
24T13

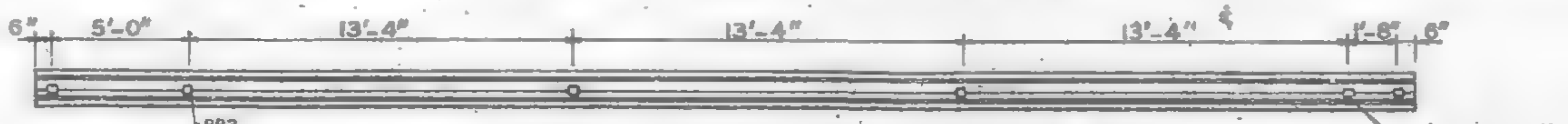

D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"

COVER PLATE PLACEMENT

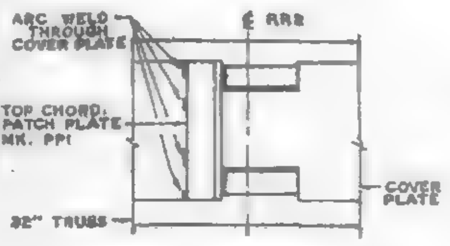

6'-10 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
10 5/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
3"
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

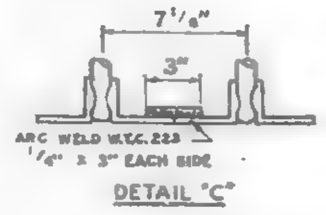
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
13'-4"
13'-4"
1'-6"
6"
PP2
SEE DETAIL "C"

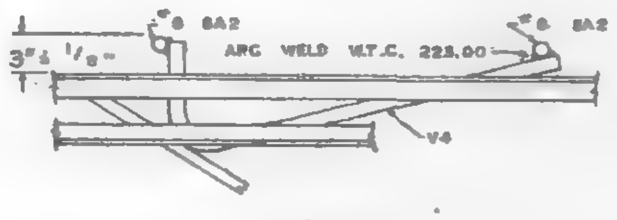
LOCATION OF PATCH PLATES ON BOTTOM CHORD


ARC WELD THROUGH COVER PLATE
℄ RR2
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS

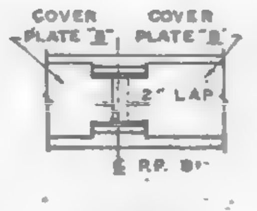
TOP VIEW - DETAIL "A"


7 1/8"
3"
ARC WELD W.T.C. 223
1/4" x 3" EACH SIDE

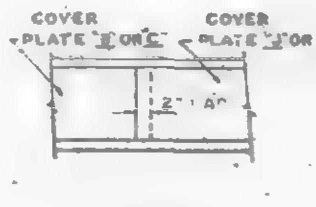
DETAIL "C"


#8 SA2
ARC WELD W.T.C. 223.00
#8 SA2
3" & 1/8"
V4

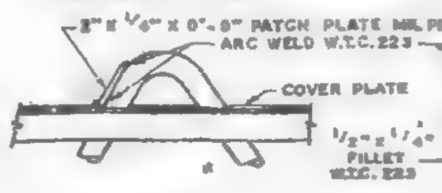
DETAIL "B"


COVER PLATE "B"
COVER PLATE "B"
2" LAP
℄ R.P. B1

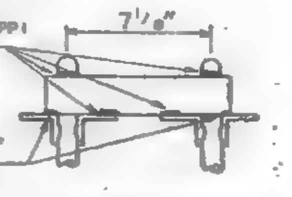
DETAIL "D"


COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" LAP

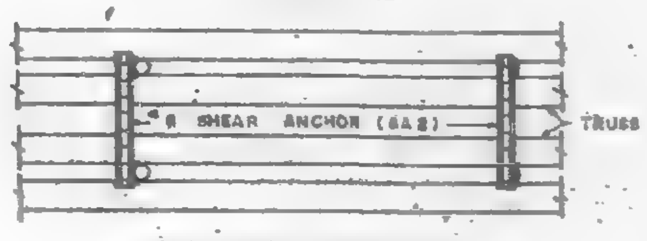
DETAIL "E"


3" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"

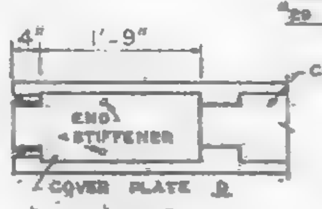

7 1/8"
1/2" x 1/4" FILLET W.T.C. 223

SECTION B-B

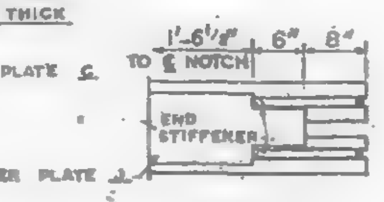

#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

COVER PLATES
#29 GA THICK

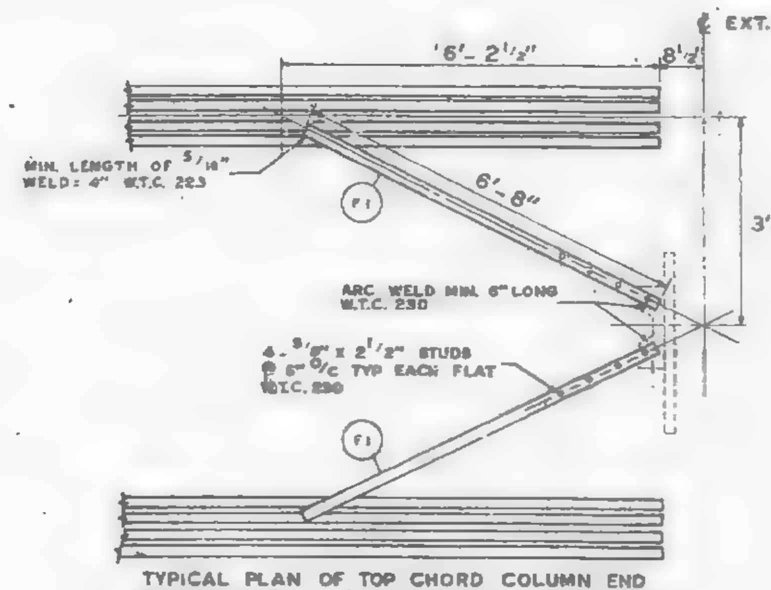

4"
1'-9"
COVER PLATE C
END STIFFENER
COVER PLATE D

DETAIL "F"

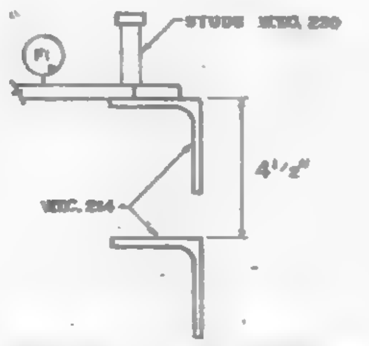

1'-6 1/8"
6"
8"
TO ℄ NOTCH
END STIFFENER
COVER PLATE J

DETAIL "G"

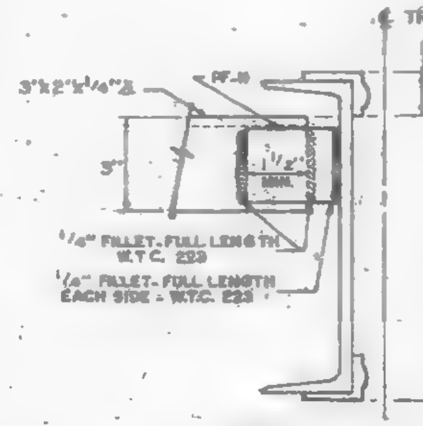
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00


℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
F1
6'-8"
3'-4"
ARC WELD MIN. 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
F1

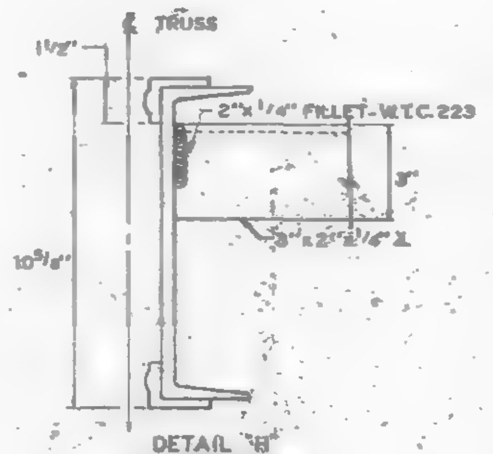
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.


F1
STUDS W.T.C. 230
4 1/2"
W.T.C. 214

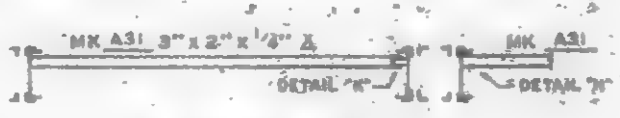
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.


℄ TRUSS
1 1/2"
3"x2"x1/4" L
PF-11
3"
1 1/2" MIN.
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

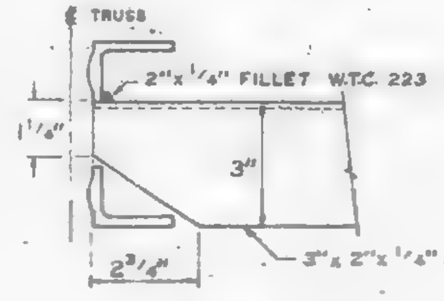
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT


℄ TRUSS
1 1/2"
2"x1/4" FILLET-W.T.C. 223
3"
3"x2"x1/4" L
10 5/8"

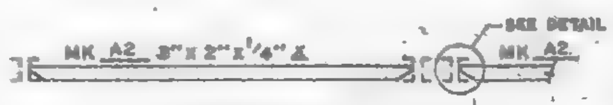
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT


MK A31 3"x2"x1/4" L
DETAIL "K"
MK A31
DETAIL "H"

SECTION C-C
END SUPPORT ANGLE


℄ TRUSS
2"x1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3"x2"x1/4" L

DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


MK A2 3"x2"x1/4" L
SEE DETAIL "J"
MK A2

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	ST 213
	T13D	1	24T13D x 13'-3"	ST 213D
3"x2"x1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/2"	ST 410
CLOSURE PLATES	PF-11	2	3"x1/4"x0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/8"x3/8"x6'-8"	ST 402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x15'-2"	ST 303
	C	2	9"x.0135"x13'-2 1/2"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0135"x13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x1 1/2"x.25"x8"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES* △1	P1	4	3 1/2"x3/8"x0'-8 1/2"	ST 400
	P2	3 *4	4 1/2"x.39"x1'-9"	ST 400
	P3	3 *4	4 1/2"x.39"x1'-0"	ST 400
	P9	4	3"x1/2"x1'-2"	ST 40[illegible]
	P10	1 *	4 1/2"x.39"x0'-5"	ST 4[illegible]8
	P11	1 *	3"x1/4"x0'-6"	ST 40[illegible]

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).

ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.

UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

Material marked * is for West panel only

NO.	DATE	REVISION	BY
△1	5-12-[illegible]	AS NOTED	G.D.

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

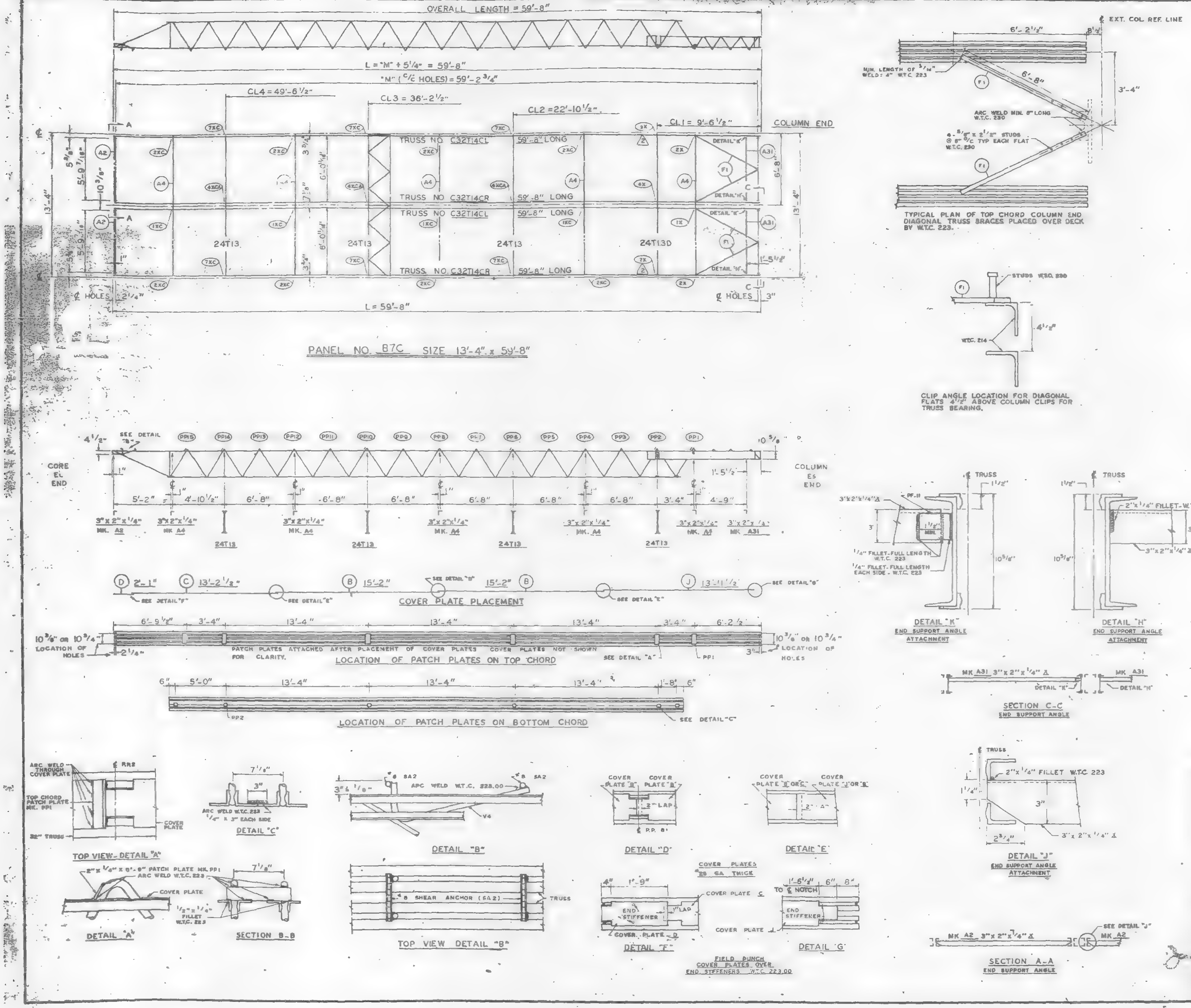
REF DRWG.	
7-A83-26	10-4-68
7-A81-13	10-4-68
7-A82-8	7-22-68
7-A84-28	7-22-68
SB-124	3-24-69
7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

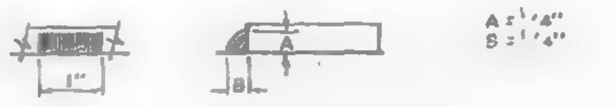
PANEL B7A-1[illegible] 4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-26
PLATE 1
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible]
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [redacted] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B7A


OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
24T13
24T13D
L = 59'-8"
℄ HOLES 2 1/4"
℄ HOLES 3"
PANEL NO. B7C SIZE 13'-4" x 59'-8"
CORE EL END
COLUMN ES END
24T13
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
10 3/8" OR 10 3/4" LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 26 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
℄ EXT. COL REF. LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/8"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠2	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
2	6-16-69	AS NOTED	G.D.
1	5-12-69	AS NOTED	G.D.

REF DRWG.

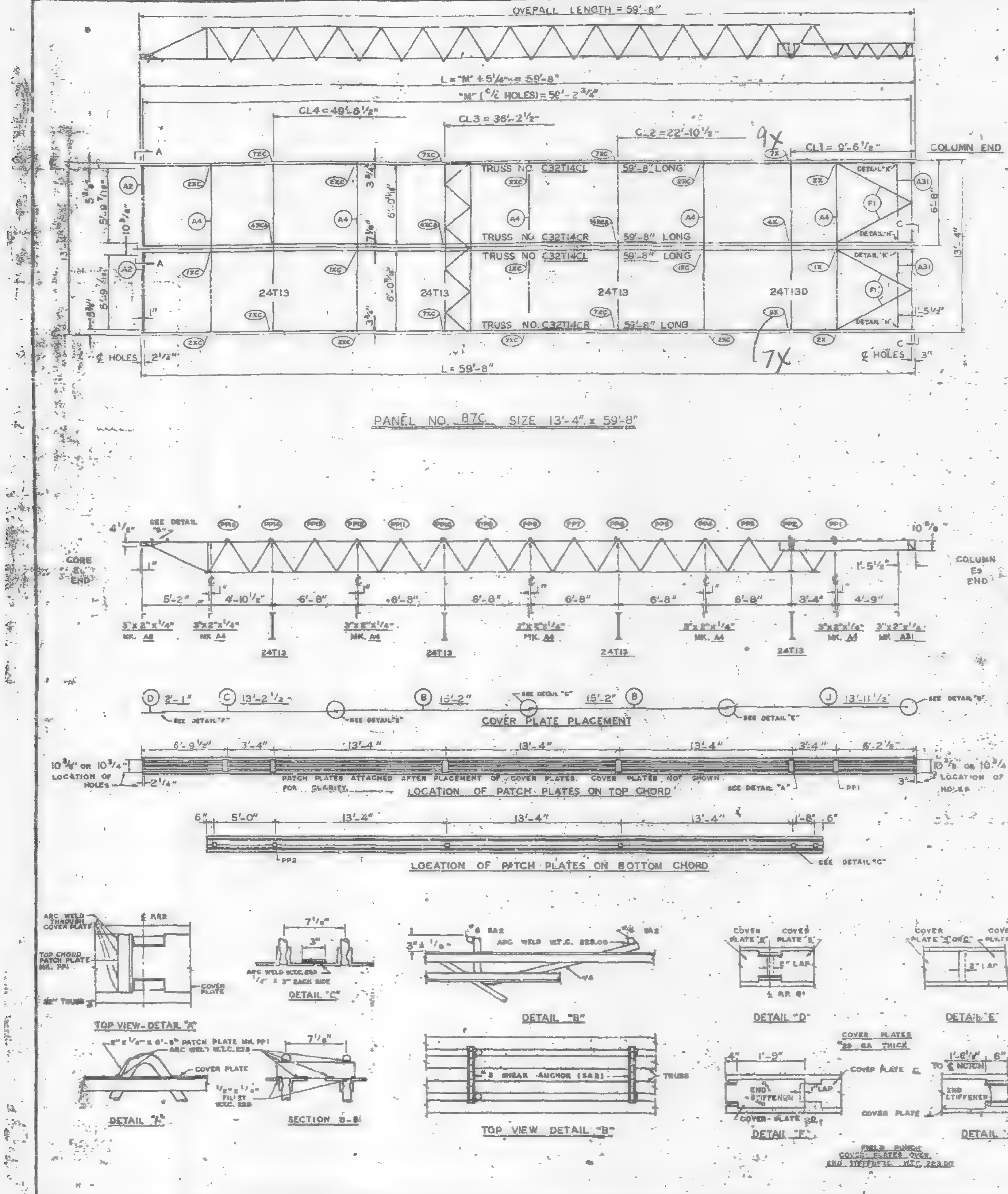
7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
5B-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

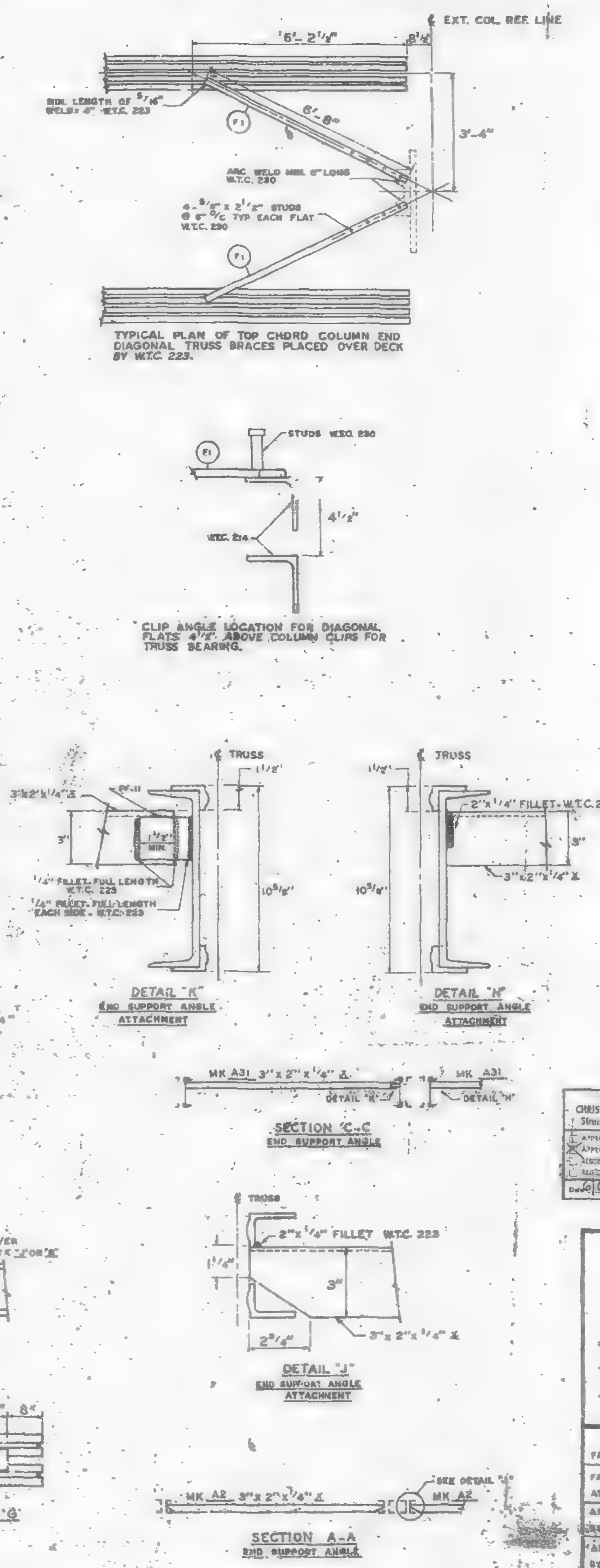
PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-26
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 1/28/69
DRAWN BY DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY
FABRICATION CONT NO W.T.C. 221
SHEET NO FP B7C



OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-8 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
9X
7X
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
DETAIL "K"
DETAIL "H"
24T13
24T13
24T13
24T13D
13'-4"
6'-8"
1'-5 1/2"
℄ HOLES 2 1/2"
℄ HOLES 3"
L = 59'-8"
A2
A4
A31
F1
1XC
2XC
4XC
4XCA
2X
4X
1X
9X
7XC
PP1
PP2
PP3
PP4
PP5
PP6
PP7
PP8
PP9
PP10
PP11
PP12
PP13
PP14
PP15
SEE DETAIL "B"
CORE ℄ END
COLUMN ℄ END
5'-2"
4'-10 1/2"
6'-8"
6'-3"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
3" x 2" x 1/4" MK. A2
3" x 2" x 1/4" MK. A4
3" x 2" x 1/4" MK. A31
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "C"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
5'-0"
13'-4"
13'-4"
13'-4"
1'-8"
6"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
TOP VIEW - DETAIL "A"
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
2" LAP
DETAIL "D"
COVER PLATE "J" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
3" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
DETAIL "A"
SECTION B-B
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATES 20 GA THICK
1'-9"
END STIFFENER
1" LAP
COVER PLATE "D"
DETAIL "F"
COVER PLATE C
TO ℄ NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENER W.T.C. 223.00

PANEL NO. B7C SIZE 13'-4" x 59'-8"



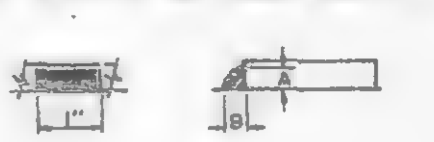
℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
6'-8"
3'-4"
F1
ARC WELD MIN. 6" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
℄ TRUSS
1 1/2"
PF-11
3" x 2" x 1/4"
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
1" MIN
10 5/8"
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT
2" x 1/4" FILLET - W.T.C. 223
3" x 2" x 1/4"
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
MK A31 3" x 2" x 1/4"
DETAIL "K"
DETAIL "H"
SECTION "C-C"
END SUPPORT ANGLE
2" x 1/4" FILLET W.T.C. 223
2 3/4"
3" x 2" x 1/4"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK A2 3" x 2" x 1/4"
SEE DETAIL "J"
SECTION A-A
END SUPPORT ANGLE

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	ST 213
	T130	1	24T130 x 13'-3"	ST 2130
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	*F1*	*4*	*1 1/2" x 5/8" x 6'-8"*	*ST 402*
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 409
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	3	4 1/2" x .39" x 0'-9"	ST 400
	P3	3	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409
△1	P10	1	4 1/2" x .39" x 0'-5"	ST 409
	P11	1	3" x 1/4" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

1	5-12-69	AS NOTED	G.D.
NO.	DATE	REVISION	BY

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

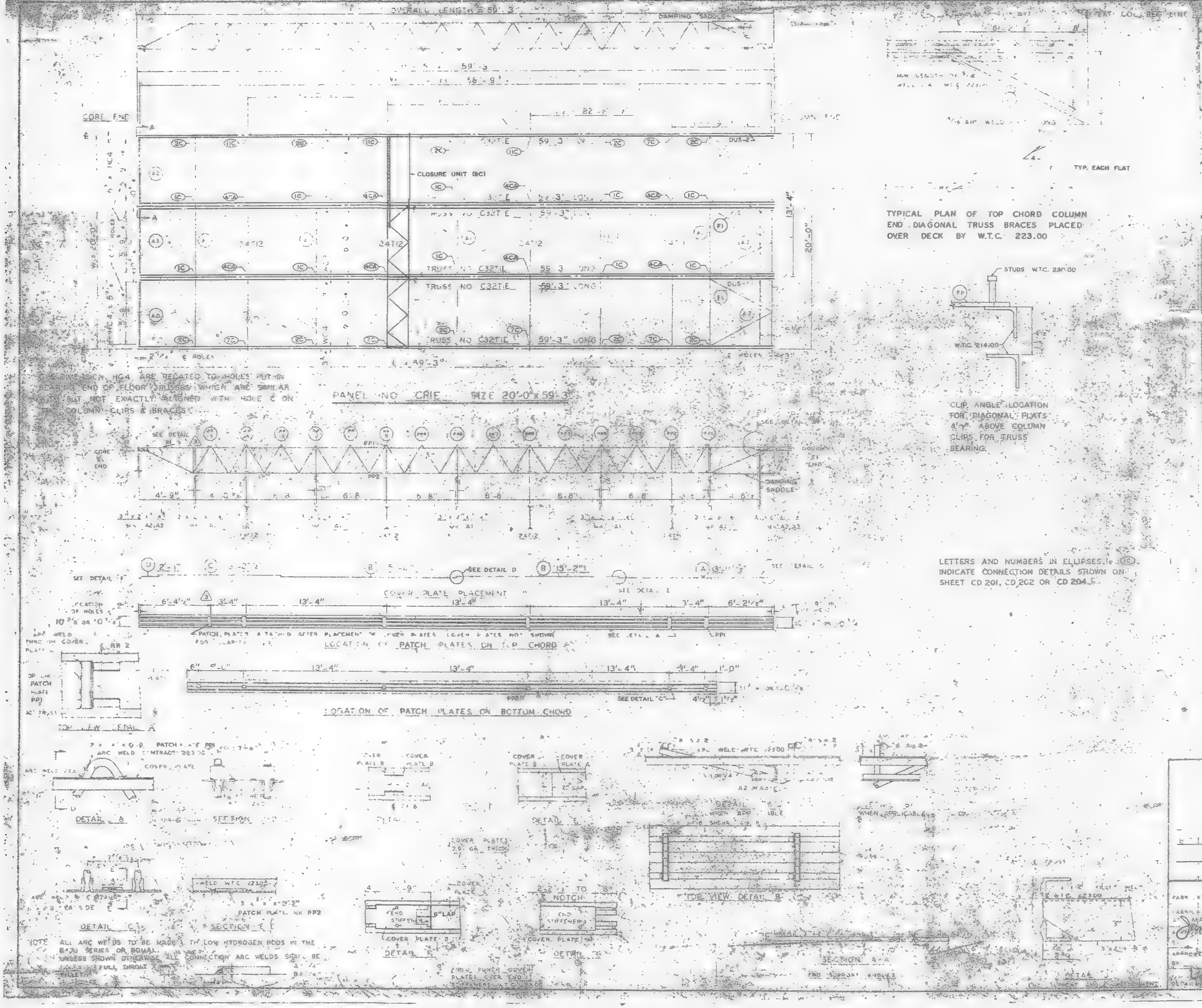
REF DRWG.		
	7-AB3-20	10-3-68
	-AB1-13	10-4-68
	7-AB2-8	7-22-68
	7-AB4-2*	7-22-68
	30-124	3-24-60
	7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON - ILLINOIS
DESIGN DRAWING NO. 7-AB3-26
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY
DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA
DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B7C


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
59'-3
56'-9'
CORE END
CLOSURE UNIT (BC)
TRUSS NO C32T E 59'-3" LONG
24T12
13'-4"
20'-0"
DUS-2
2'-1/4" € HOLES
€ HOLES
PANEL NO CRIE SIZE 20'-0" x 59'-3"
SEE DETAIL
PP1
PP2
DAMPING SADDLE
4'-9"
6'-8"
SEE DETAIL D
15'-2"
SEE DETAIL E
COVER PLATE PLACEMENT
6'-4 1/2"
3'-4"
13'-4"
6'-2 1/2"
PATCH PLATES
LOCATION OF PATCH PLATES ON TOP CHORD
6"
1'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION
DETAIL E
COVER PLATES 20 GA THICK
DETAIL
WHEN APPLICABLE
TOP VIEW DETAIL B
WELD W.T.C. 223.00
PATCH PLATE MK PP2
DETAIL C
SECTION
END STIFFENER
COVER PLATE
8" LAP
NOTCH
DETAIL
SECTION 4-4
DETAIL
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT

DIMENSION HC4 ARE RELATED TO HOLES PUT IN EACH END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE € ON COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL PLATS 4 1/4" ABOVE COLUMN CLIPS FOR TRUSS BEARING

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	[illegible]	[illegible]	[illegible] 59'-3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	A1	[illegible]	[illegible]	ST 4[illegible]3
[illegible]	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	8	[illegible]	ST 400
	PP2	18	[illegible]	ST 400

[illegible] PLATES	[illegible]	3	[illegible]	[illegible]
	[illegible]	5	[illegible]	[illegible]
	[illegible]	3	[illegible]	[illegible]
		3	[illegible] x 2'-1"	[illegible]
ANGLE CLIPS		21	[illegible]	ST 400
SHEAR ANCHOR	SA2	9	REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS 1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS 2	1	[illegible] x 3 1/2 x 3/8 x 3'-8 7/8	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ⊏ 1 1/2" x 1 1/4" x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	7	4 1/2" x .39" x 1'-0"	ST 400

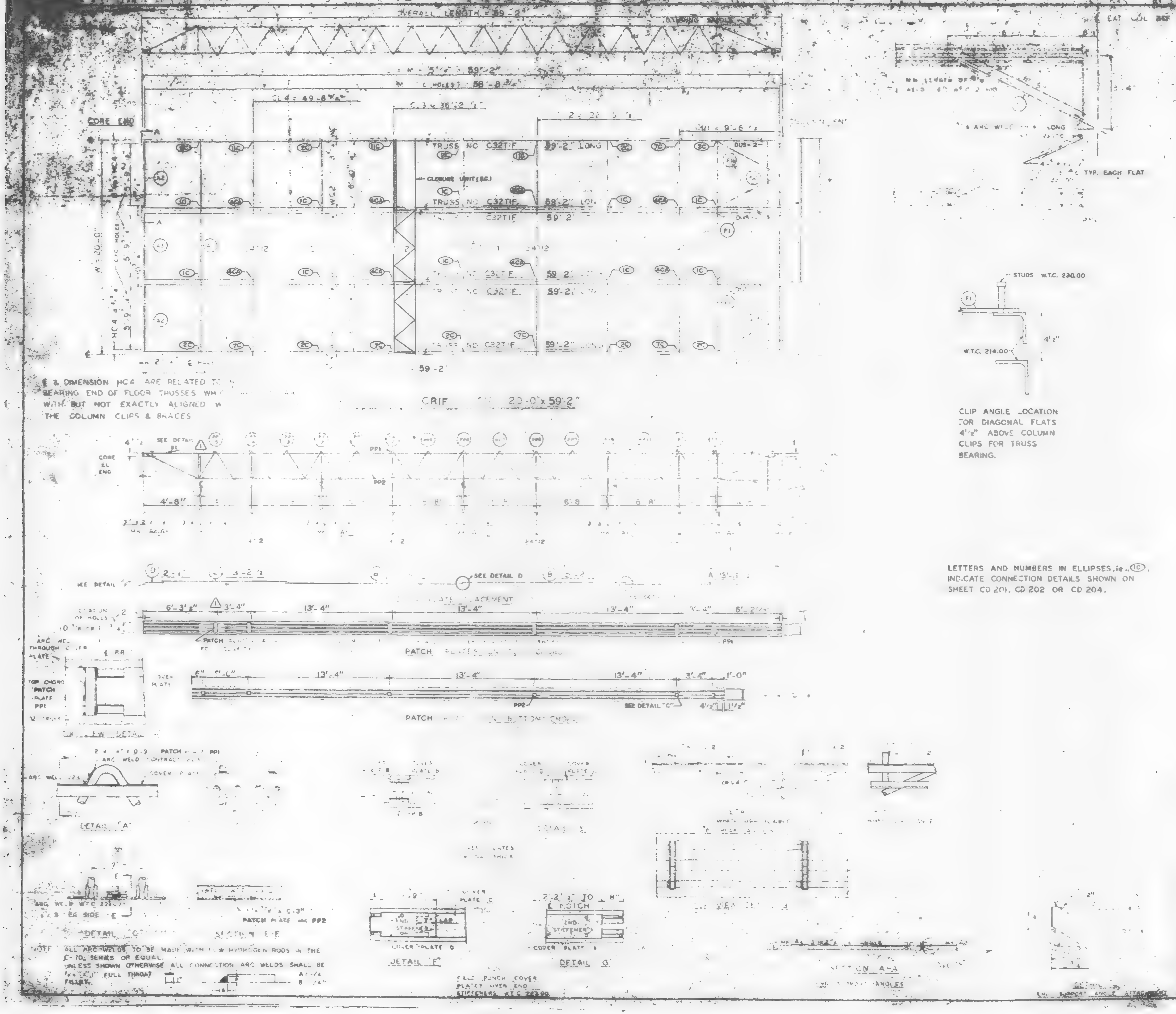
NO.	DATE	REVISION	BY
3	6-9-69	AS NOTED	G.D.C.
2	10-16-68	MAT'L LIST	G.D.C.
1	7-17-68	GENERAL	[illegible]

10-15-68
7-22-68
7-22-68
SA 2A 1-6-69
7-22-68
7 A82 B & T 7-22-68
7 A84-42 10-17-68

10-11 (SOUTH)

PANEL CRIE 3

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 383 B 4-1-68 PLATE
James White
APPROVED FOR FABRICATION FOR P.O.N.A. DATE 1 2 70
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY F.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. WTC 221
SHEET NO FP-CRIE


OVERALL LENGTH = 59'-2"
CORE END
TRUSS NO C32T1F
59'-2" LONG
CLOSURE UNIT (BC)
59'-2"
24T12
WC2
HC4
20'-0"
CRIF 20'-0" x 59'-2"
CORE EL END
SEE DETAIL
PP1
PP2
4'-8"
6'-8"
SEE DETAIL D
6'-3 1/2"
3'-4"
13'-4"
6'-2 1/2"
PATCH PLATES
PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP CHORD PATCH PLATE PP1
DETAIL "A"
PATCH PLATE PP1
ARC WELD
COVER PLATE
DETAIL "G"
SECTION E-E
PATCH PLATE PP2
ARC WELD W.T.C. 228
EA SIDE
DETAIL "F"
COVER PLATE D
DETAIL "G"
END STIFFENERS
LAP
NOTCH
COVER PLATE
SECTION A-A
STUDS W.T.C. 230.00
W.T.C. 214.00
4'1/2"
TYP. EACH FLAT
ARC WELD
LONG

€ & DIMENSION HC4 ARE RELATED TO BEARING END OF FLOOR THUSSES WH[illegible] WITH BUT NOT EXACTLY ALIGNED W[illegible] THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie.. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

SELL PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

NOTE ALL ARC-WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLETS.
A = 1/4
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1F	6	C32T1F + 59'-2"	ST201F
BRIDGING TRUSSES	[illegible]	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3 x 2" x 1/4 ANGLE	A1	5	3 x 2' x 1/4 x [illegible]	ST 403
	A2	4	3 x 2 x 1/4" x 6'-[illegible]	ST 403
	A3	2	3' x 2" x 1/4 x 5'-[illegible] 3/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x [illegible] x 6'-8'	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-0"	ST 400
	PP2	8	[illegible]	ST 400
		3	[illegible]	ST303
	[illegible]	[illegible]	.35" x 5'-2	ST 303
	[illegible]	3	[illegible] .135" x [illegible]	ST 303
		3	[illegible] x 2'-1"	ST303
[illegible]	[illegible]	21	2 x 1/2 x 1/4 [illegible]	ST 400
[illegible] REBAR [illegible]	S	9	#8 REBAR x 0'-8"	ST 400
[illegible] ANGLE	[illegible]	[illegible]	3 x 3/8 x 2' 8 7/8	ST298
	[illegible]	[illegible]	[illegible] 3' 8 7/8	ST298
CONNECTION BAR	CB1	4	[illegible]	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1/2 x 1 1/4" x	BT212
			.230 x 6'-6 1/2"	ST204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	

10-15-68
7-22-68
7-22-[illegible]
1-6-69
7-22
7-22
10-15-68

[illegible] THE PORT [illegible] AUTHORITY

[illegible] 47-48 (S) 47-48, 70-71 (N)

PANEL CRIF [illegible] x 59'-2"

BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

[illegible] COMPANY

MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR [illegible] James White — DATE 1/2/70

APPROVED FOR FABRICATION FOR FABRICATOR — DATE

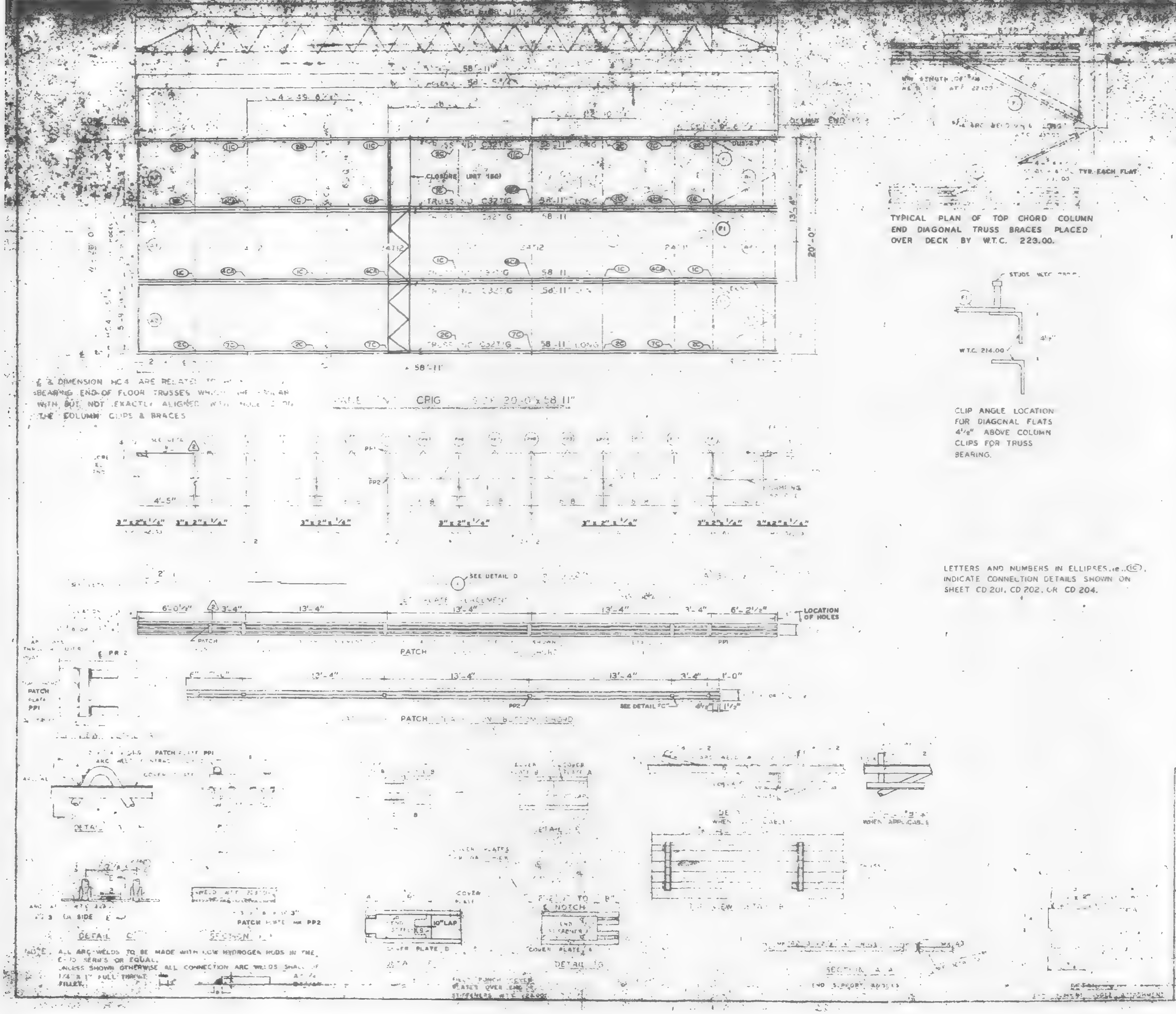
DESIGN DRAWING NO 7-AB3 B — PLATE

DRAWN BY [illegible] DATE OCT. 23, 1968

CHECKED BY T.M.CHURN DATE OCT. 23, 1968 — IN CHARGE OF PROD. DEV.

DETAILED BY [illegible]

FABRICATION CONT. NO. W.T.C. 221 — SHEET NO FP-CRIF



58'-11"
CLOSURE UNIT (BG)
TRUSS NO. C32T1G 58'-11" LONG
24T12
13'-6"
20'-0"
P1
5'-9"
58'-11"
PANEL CRIG 20'-0" x 58'-11"
4'-5"
3"x2"x1/4"
3"x2"x1/4"
SEE DETAIL D
6'-0 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF HOLES
PATCH
PP1
PATCH PLATE PP1
PP2
SEE DETAIL C
1'-0"
10" LAP
COVER PLATE D
NOTCH
COVER PLATE A
DETAIL B
DETAIL C
SECTION A-A
WHEN APPLICABLE
PATCH PLATE MK PP2
TYP. EACH FLAT
STUDS W.T.C.
W.T.C. 214.00
4 1/8"

"E" DIMENSION MC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ... WITH, BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/8" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

NOTE: ALL ARC-WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

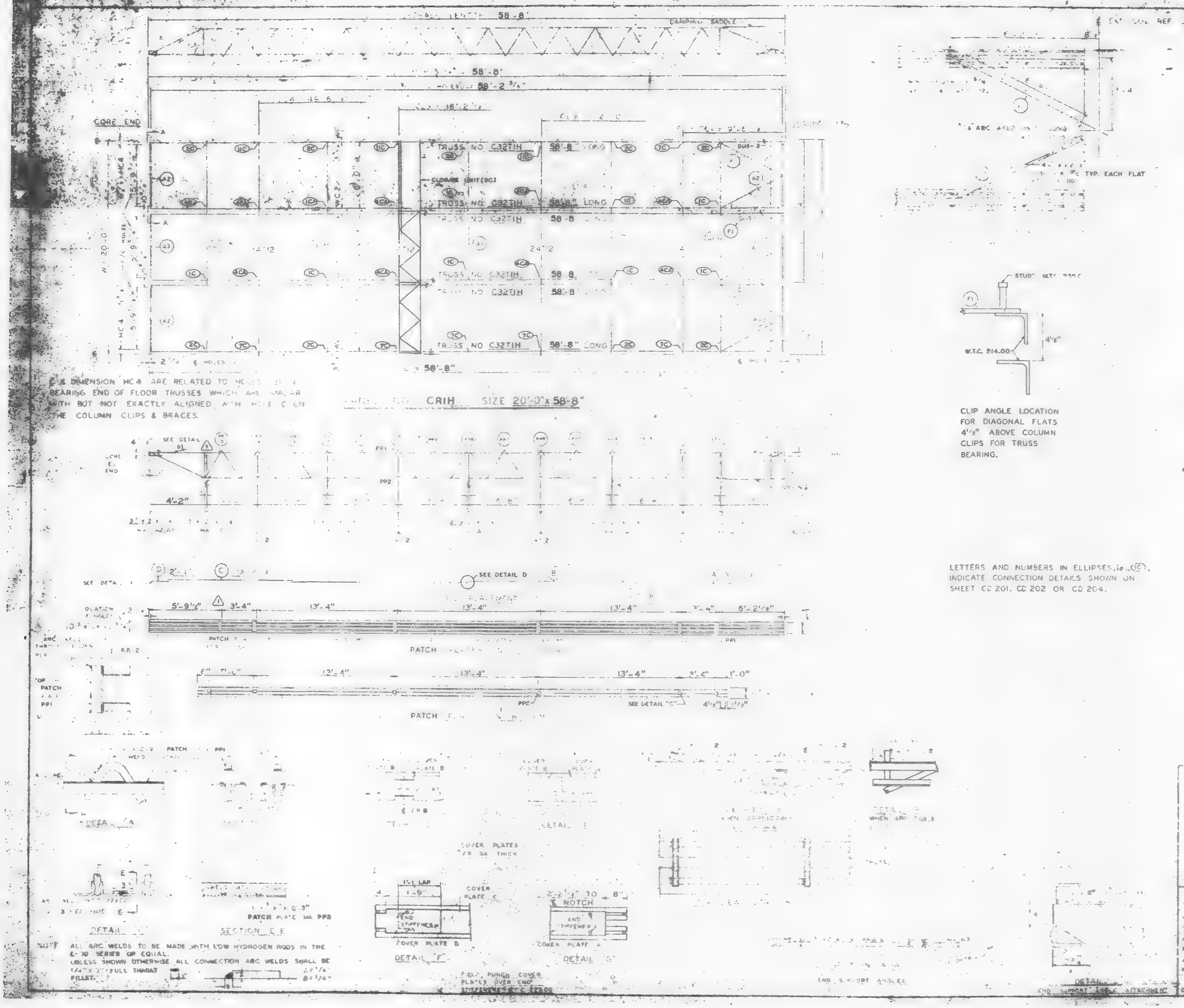
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	REQ'D	SIZE	
FLOOR TRUSSES	1G	4	C32T1G - 58'-11"	ST 201G
BRIDGING TRUSSES	T11	1	24T11 - [illegible]	ST 211
	T12	3	24T12 - 19'-11"	ST 212
[illegible] ANGLE	A1	6	[illegible]	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F1	6	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 0'-3"	ST 400
	[illegible]	3	[illegible] 2'-1"	[illegible]
[illegible]		21	[illegible]	ST 400
[illegible]	SA2	3	[illegible] 0'-6"	ST 400
CONNECTION BAR	CB1	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT	[illegible]	3	730 x 6' 0 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x [illegible] x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x [illegible]-0"	ST 400

NO	DATE	REV	
2	8-9-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	

10-15-68
7-22-68
7-22-68
1-6-69
7-22-68
7-22-68
10-15-68

39 (NORTH & SOUTH) 40 (SOUTH) 10-11 (NORTH)
PANEL CRIG 20'-0" x 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) 2

COMPANY
DESIGN DRAWING NO. T-493 B
James White 1/2/70
DRAWN BY: [illegible]
DATE APRIL 10, 1968
CHECKED BY J.R. PAUL
DATE APRIL 10, 1968
IN CHARGE PROD. DEV.
FABRICATION CONT. NO. W.T.C. 221
SHEET No. FP CRIG


58'-8"
CAMBERING SADDLE
58'-8"
58'-2 3/4"
CORE END
TRUSS NO C32T1H 58'-8" LONG
CLOSURE UNIT (BC)
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8"
24T12
24T12
TRUSS NO C32T1H 58'-8"
TRUSS NO C32T1H 58'-8"
TRUSS NO C32T1H 58'-8" LONG
58'-8"
20'-0"
CRIH SIZE 20'-0" x 58'-8"
SEE DETAIL
PP1
PP2
4'-2"
SEE DETAIL D
5'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH
13'-4"
13'-4"
13'-4"
2'-4"
1'-0"
SEE DETAIL "C"
4 1/2"
1 1/2"
PATCH
DETAIL A
DETAIL B
DETAIL E
COVER PLATES 20 GA. THICK
1'-1 LAP
1'-9"
END STIFFENER
COVER PLATE C
COVER PLATE B
DETAIL "F"
2'-6 1/4" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS & SEALED
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
3/16" ARC WELD
TYP. EACH FLAT
STUD WTC 220
F1
W.T.C. 214.00
4 1/2"

DIMENSION HC4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	1H	[illegible]	C32T1H - 58'-8"	ST 201H
[illegible] TRUSSES	[illegible]	3	24T [illegible]	BT 211
	T12	3	24T12 - 19'-11"	BT 212
3 x 2 x 1/4 ANGLE	A1	5	3" x 2 x 1/4" x 19'-11"	ST 403
	A2	4	3 x 2 x 1/4 x 5'-11 9/16	ST 403
	A3	2	3 x 2 x 1/4 x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2 x 3/8 x 6-8	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	[illegible]	3	[illegible]	ST 303
	[illegible]	6	[illegible]	ST 303
	[illegible]	3	[illegible]	ST 303
	[illegible]	3	[illegible] 2'-1"	ST 303
ANGLE	[illegible]	21	[illegible]	ST 400
[illegible]	SA2	9	[illegible] REBAR x 0'-8"	ST 400
DAMPING SADDLE	[illegible]	2	3 1/2" x 3 1/2 x 3/8" x 3'-6 7/8"	ST 298
	[illegible]	[illegible]	[illegible] 6 7/8	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2 x 1 1/4" x	BT 2[illegible]
			230 x 6'-8 1/8"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 40[illegible]

1	6-9-69	AS NOTED	GDC
NO	DATE	REVISION	BY

1	[illegible]	10-15-68
	[illegible] 15, 16 & 39	7-22-68
	[illegible] 41	7-22-[illegible]
	[illegible]	1-6-69
	[illegible]	[illegible]
	[illegible]	7-22-[illegible]
	[illegible]	7-22-[illegible]
	[illegible] 42	10-15-68

79-80 (N)

CRIH [illegible] x 58'-8"

BLDG. 8 FLOORS 79-80 (WEST) 1

[illegible] STEEL COMPANY

FABR. AT [illegible] MADISON, ILLINOIS

James White
FOR [illegible]
1/2/70

APPROVED FOR FABRICATION
BY FOR FABRICATOR
DATE

DETAILED BY A.S. WEBER

DESIGN DRAWING NO [illegible] 483 B
PLATE

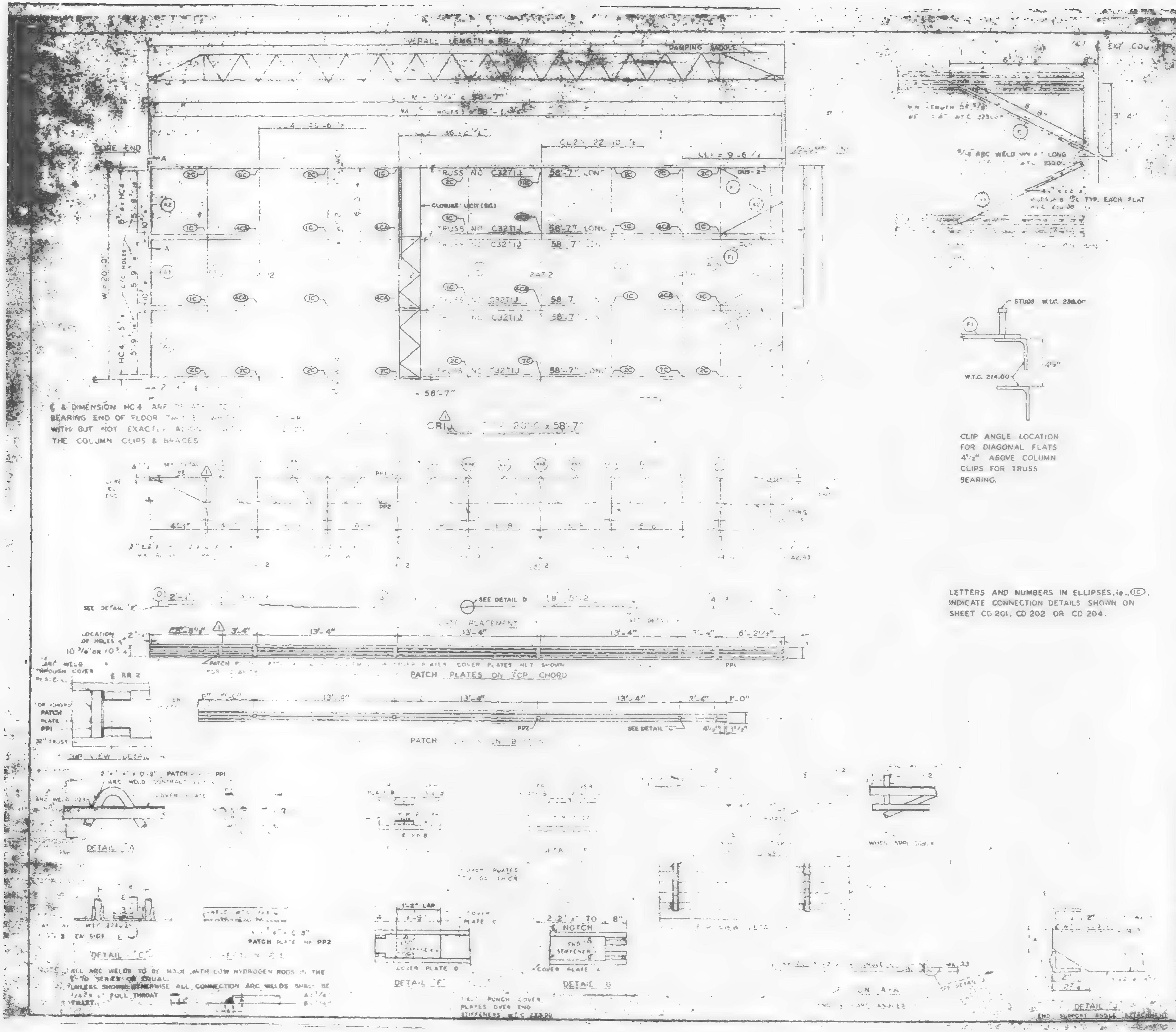
DRAWN BY [illegible]
DATE OCT. 23, 1968

CHECKED BY T.M. CHURA
DATE OCT. 23, 1968

IN CHARGE OF PROD. DEV.

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP CRIH


OVERALL LENGTH = 58'-7"
DAMPING SADDLE
CORE END
TRUSS NO. C32T1J 58'-7" LONG
CLOSURE UNIT (BC)
24T12
58'-7"
C & DIMENSION HC4 ARE ... BEARING END OF FLOOR ... WITH BUT NOT EXACTLY ALIGNED ... THE COLUMN CLIPS & BRACES
CRIJ ... 20'-0" x 58'-7"
SEE DETAIL D
PATCH PLATES ON TOP CHORD
PATCH ... ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL
DETAIL "A"
DETAIL "C"
DETAIL "F"
DETAIL "G"
NOTCH
END STIFFENER
COVER PLATE D
COVER PLATE A
PATCH PLATE MK PP2
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 233.00
DETAIL ... END SUPPORT ANGLE ATTACHMENT
EXT. COLUMN LINE
5/16 ABC WELD ... LONG
STUDS W.T.C. 230.00
W.T.C. 214.00

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

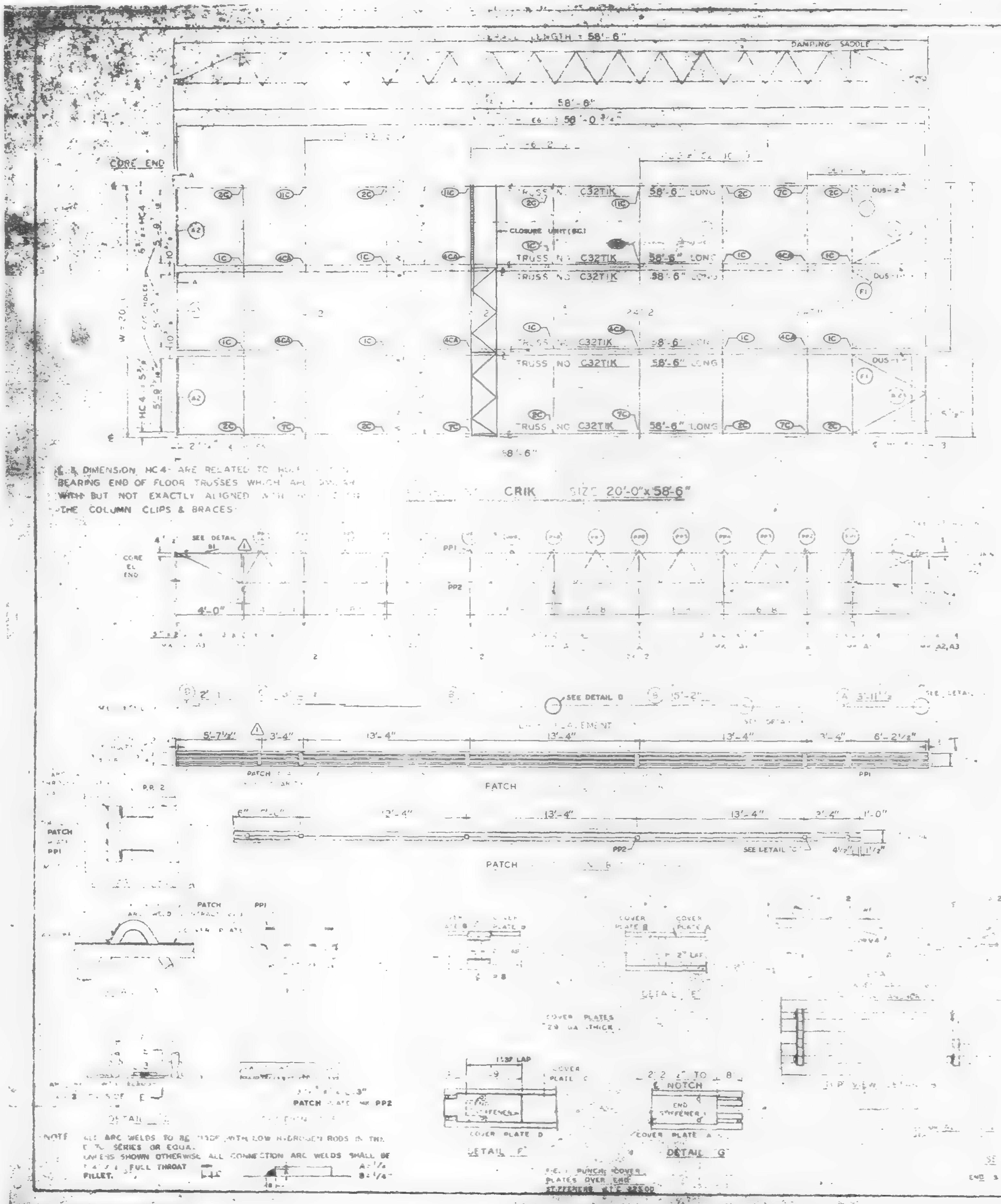
REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1J	8	C32T1J x 58'-7"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	[illegible]
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	6	3"x2"x1/4"x [illegible]	ST 403
	A2	4	3"x2"x1/4"x 8'-11 9/16"	ST 402
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	8	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-8"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	[illegible]	3	[illegible] .135" x 13'-11 1/2"	ST 303
	B	6	[illegible] x .0135" x 15'-2"	ST 303
	C	3	2" x .0135" x 13'-2 1/2"	ST 303
	D	3	[illegible] .135" x 2'-1"	ST 303
ANGLE [illegible]	[illegible]	21	2" x 2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
	[illegible]	[illegible]	[illegible] x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x	BT212
			230 x 6'-6 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

△1	6-9-69	AS NOTED	GDC
NO	DATE	REVISION	BY

△1
[illegible] 10-15-69
[illegible] 439 7-22-68
[illegible] 41 7-22-68
[illegible] 1-6-69
[illegible] 1-3-68
7-22-66
7-22-66
[illegible] 42 10-15-69

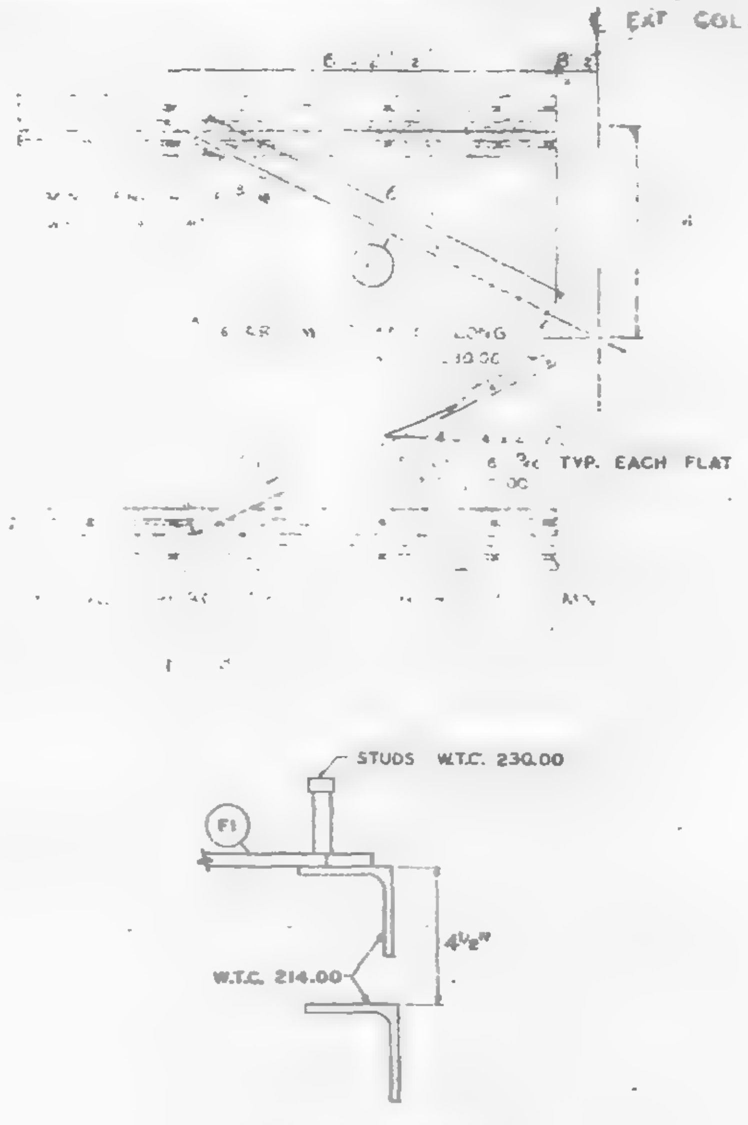
FLOOR PANEL DETAILS
WORLD TRADE CENTER N.Y.C.
THE PORT OF NEW YORK AUTHORITY
B[illegible] 40 (N)
CRIJ [illegible] x 58'-7"
BLDG. B FLOORS 40 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]-ABS-B [illegible] PLATE
APPROVED FOR ERECTION BY James White FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE OCT 23, 1968
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR DATE
CHECKED BY T.M. CHURN DATE OCT 23, 1968
IN CHARGE OF PROD. [illegible]
DETAILED [illegible]
FABRICATION CONT. NO. W.T.C. [illegible]

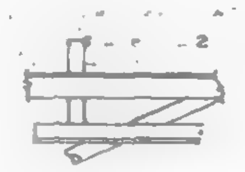

PANEL LENGTH = 58'-6"
DAMPING SADDLE
58'-6"
58'-0 3/4"
CORE END
TRUSS NO C32TIK
58'-6" LONG
CLOSURE UNIT (BC)
HC4
CRIK SIZE 20'-0"x58'-6"
SEE DETAIL
CORE EL END
PP1
PP2
4'-0"
SEE DETAIL D
15'-2"
3'-11"
5'-7 1/2"
3'-4"
13'-4"
6'-2 1/8"
PATCH
PP1
PP2
SEE DETAIL
4 1/2"
1 1/2"
1'-0"
DETAIL E
COVER PLATE B
COVER PLATE A
COVER PLATES 20 GA. THICK
1 1/2" LAP
COVER PLATE D
DETAIL F
NOTCH
END STIFFENER
DETAIL G
PATCH PLATE MK PP2
END SUPPORT ANGLE ATTACHMENT

€ & DIMENSION HC4 ARE RELATED TO [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE [illegible] WITH BUT NOT EXACTLY ALIGNED WITH [illegible] THE COLUMN CLIPS & BRACES.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.


EXT. COL. REF. LINE
6 3/4 TYP. EACH FLAT
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.



LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF. DRWG.
FLOOR TRUSSES	T1K	6	C32T1K - 58'-6"	ST201K
BRIDGING TRUSSES	[illegible]	1	24" [illegible] - 19'-11"	BT212
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 10'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1/2"x 5/8"x 8'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4"x 0'-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	3	[illegible] x 0.35"x 13'-11 1/2"	ST 303
	B	6	9"x 0.135"x 15'-2"	ST 303
	C	3	9"x .0135"x 13'-2 1/2"	ST 303
	D	3	[illegible] x 0.35"x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2"x 1 1/4"x	BT 212
			230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

1	6-9-69	AS NOTED	G.D.C.
NO	DATE	REVISION	BY

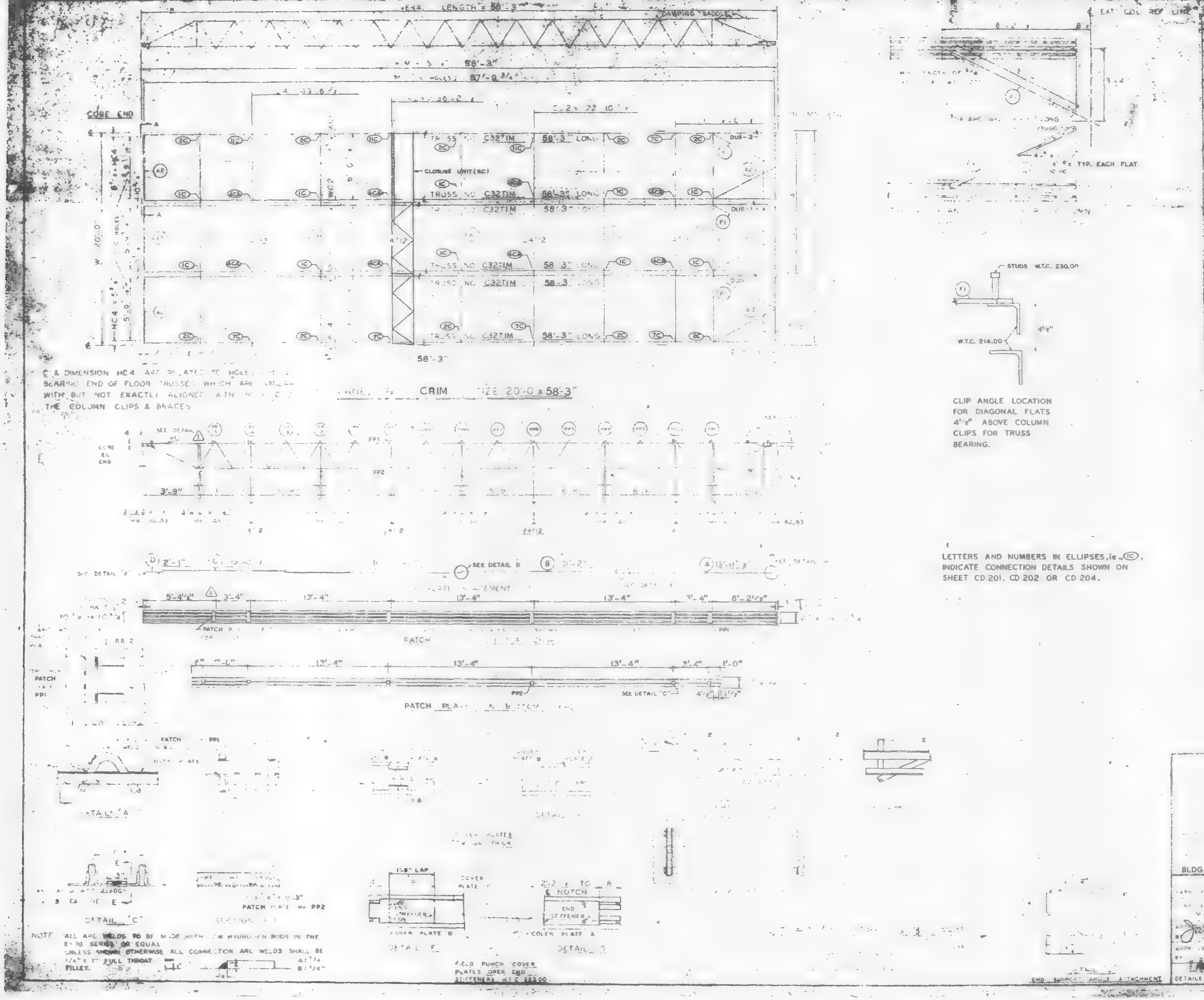
[illegible]	10-15-68
[illegible] 38 & 39	7-22-68
[illegible] 41	7-22-68
[illegible]	1-6-69
[illegible] ABA-2	1-3-69
[illegible]	7-22-68
7 ABA [illegible] 7	7-22-68
7 ABA 42	10-15-68

FLOOR PANEL DETAILS
[illegible]
[illegible] CENTER [illegible] N.Y.C.
FOR
[illegible] NEW YORK AUTHORITY

[illegible] 45-46 (S) 46(N)
PANEL CRIK [illegible] x 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY

[illegible] NOIS		DESIGN DRAWING NO [illegible] ABA-8	PLATE
APPROVED FOR FABRICATION James White NYA	DATE 1/2/70	DRAWN BY [illegible] DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE OCT 23, 1968	IN CHARGE OF PROD. DEP.
LACLEDE STEEL CO. DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. [illegible] 221	SHEET NO. FP-CRIK


LENGTH = 58'-3"
DAMPING SADDLE
58'-3"
57'-9 3/4"
CORE END
TRUSS NO. C32TIM 58'-3" LONG
CLOSURE UNIT (BC)
DUS-2
DUS-1
F1
A2
1C
2C
4CA
7C
11C
HC4
20'-0"
58'-3"
CRIM
SIZE 20'-0 x 58'-3"
SEE DETAIL
CORE EL END
PP1
PP2
3'-9"
24T12
A2, A3
SEE DETAIL "D"
5'-4 1/2"
3'-4"
13'-4"
6'-2 1/2"
PATCH PL
PATCH
13'-4"
3'-4"
1'-0"
SEE DETAIL "C"
4 1/2"
PATCH PLATE ON BOTTOM
PATCH PP1
DETAIL A
DETAIL "C"
PATCH PLATE MK PP2
SECTION
1'-8" LAP
COVER PLATE
STIFFENER
COVER PLATE B
DETAIL E
2'-2 TO 8
NOTCH
END STIFFENER
COVER PLATE A
DETAIL B
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
END SUPPORT ANGLE ATTACHMENT
EXT. COL. REF. LINE
5" TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO HOLE[illegible] BEARING END OF FLOOR TRUSSES WHICH ARE [illegible] WITH BUT NOT EXACTLY ALIGNED WITH [illegible] THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF'D DRWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIM	4	C32TIM - 58'-3"	ST201M
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT213
	T12	3	24T12 - 19'-11"	BT212
3" x 2" x 1/4" ANGLE	A1	8	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 8'-8"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	A	3	9" x [illegible] x 3'-11 1/2	ST 303
	B	6	9" x 0.135" x 3'-2	ST 303
	C	3	9" x 0.135" x 3'-2	ST 303
	D	3	9" x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
	DUS-2		3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x 230 x 5'-8 1/2"	BT212 CD-04
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

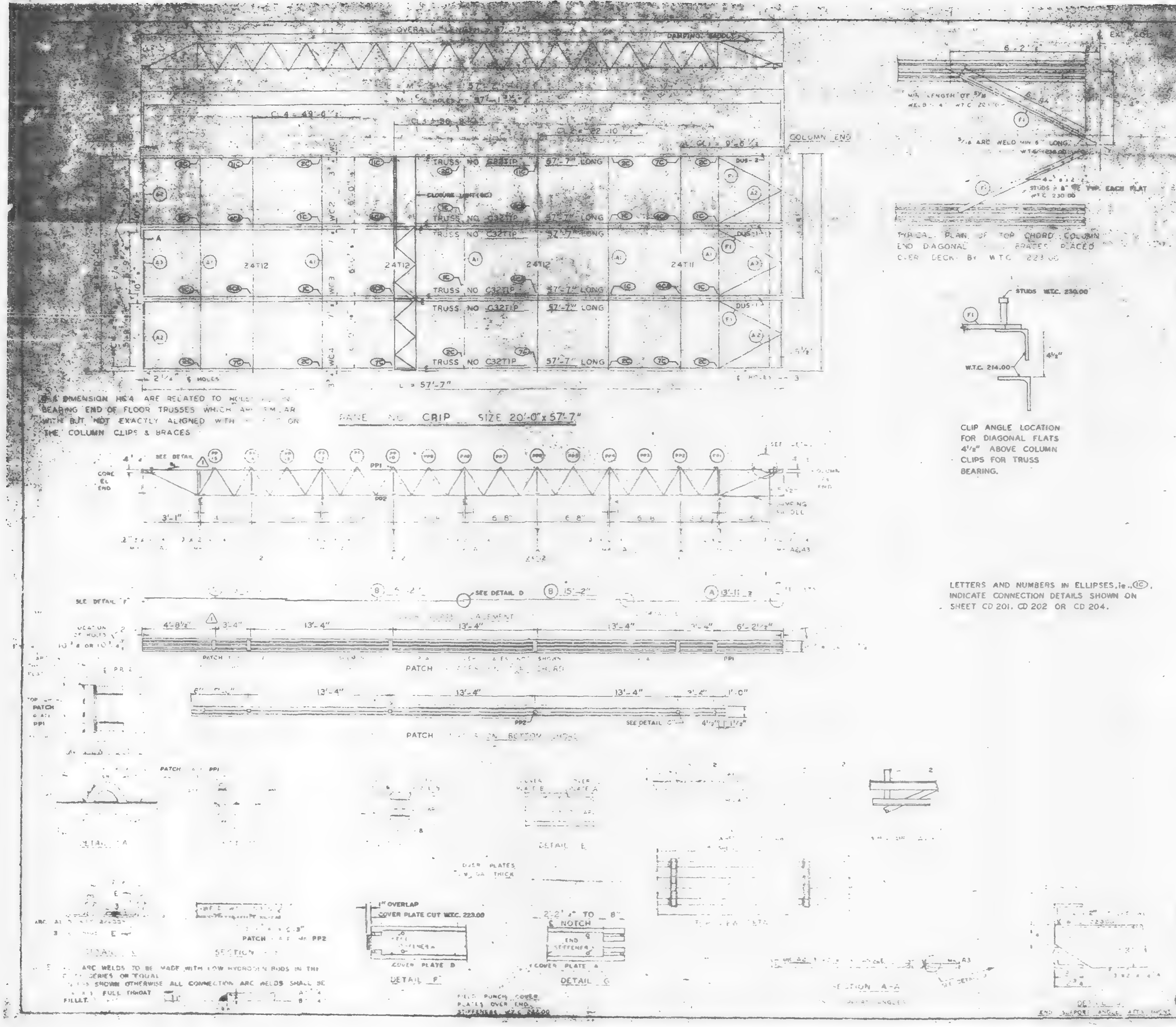
NO.	DATE	REVISION	
1	5-9-69	AS NOTED	

10-15-68
7-22-68
7-22-68
1-6-69
7-22-69
7-22-69
10-15-69

WORLD TRADE CENTER
72-73 (N)
CRIM 58'-3"
BLDG. B FLOORS 72-73 (WEST) 1
LACLEDE STEEL COMPANY

	DESIGN DRAWING NO 7 493-B PLATE
APPROVED FOR FABRICATION BY James White DATE 1/2/70	DRAWN BY DATE OCT 23, 1968
APPROVED FOR FABRICATION BY DATE	CHECKED BY T.M. CHURA DATE OCT 23, 1968
DETAILED BY A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221

IN CHARGE OF PROD. DES.
SHEET NO.



OVERALL LENGTH 57'-7"
DAMPING SADDLE
COLUMN END
CORE END
TRUSS NO. C32TIP 57'-7" LONG
CLOSURE UNIT (BC)
24T12
24T11
DUS-2
L = 57'-7"
EXT. COL. REF. LINE
STUDS W.T.C. 230.00
W.T.C. 214.00
SEE DETAIL D
PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
DETAIL E
DETAIL F
DETAIL G
SECTION A-A
1" OVERLAP
COVER PLATE CUT W.T.C. 223.00
COVER PLATE B
COVER PLATE A
END STIFFENER
NOTCH

B & DIMENSION HS 4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH ... ON THE COLUMN CLIPS & BRACES

PANEL NO. CRIP SIZE 20'-0" x 57'-7"

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL ... BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

... ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE ... SERIES OR EQUAL ... SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ... FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIP	6	C32TIP x 57'-7"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 x 19'-11½"	[illegible]
	T12	3	24T12 x 19'-11½"	[illegible]
3"x2"x¼" ANGLE	A1	8	3"x2"x¼" x [illegible]	[illegible]
	A2	4	3"x2"x¼" x [illegible]	[illegible]
	A3	2	3"x2"x¼" x [illegible]	[illegible]
DIAGONAL FLATS	F1	5	1½" x ⅜" x 6'-[illegible]	ST 402
PATCH PLATES	PP1	16	2" x ¼" x 0'-9"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	A	[illegible]	9" x 0.135 x [illegible]	[illegible]
	B	6	9" x 0.135 x 13'-2"	[illegible]
	C	3	9" x 0.135 x 12'-[illegible]	[illegible]
ANGLE CLIPS	CL	21	2"x1½" x [illegible]	[illegible]
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x [illegible]	[illegible]
DAMPING SADDLE	DUS	2	[illegible]	[illegible]
	DUS-2	1	3½"x3½"x⅜" x [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 4-1½" x ¼" x .230 x 5'-8½"	[illegible] CD 204
CONNECTION PLATES	PC	5	3½" x 3½" x 0'-6"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	[illegible]

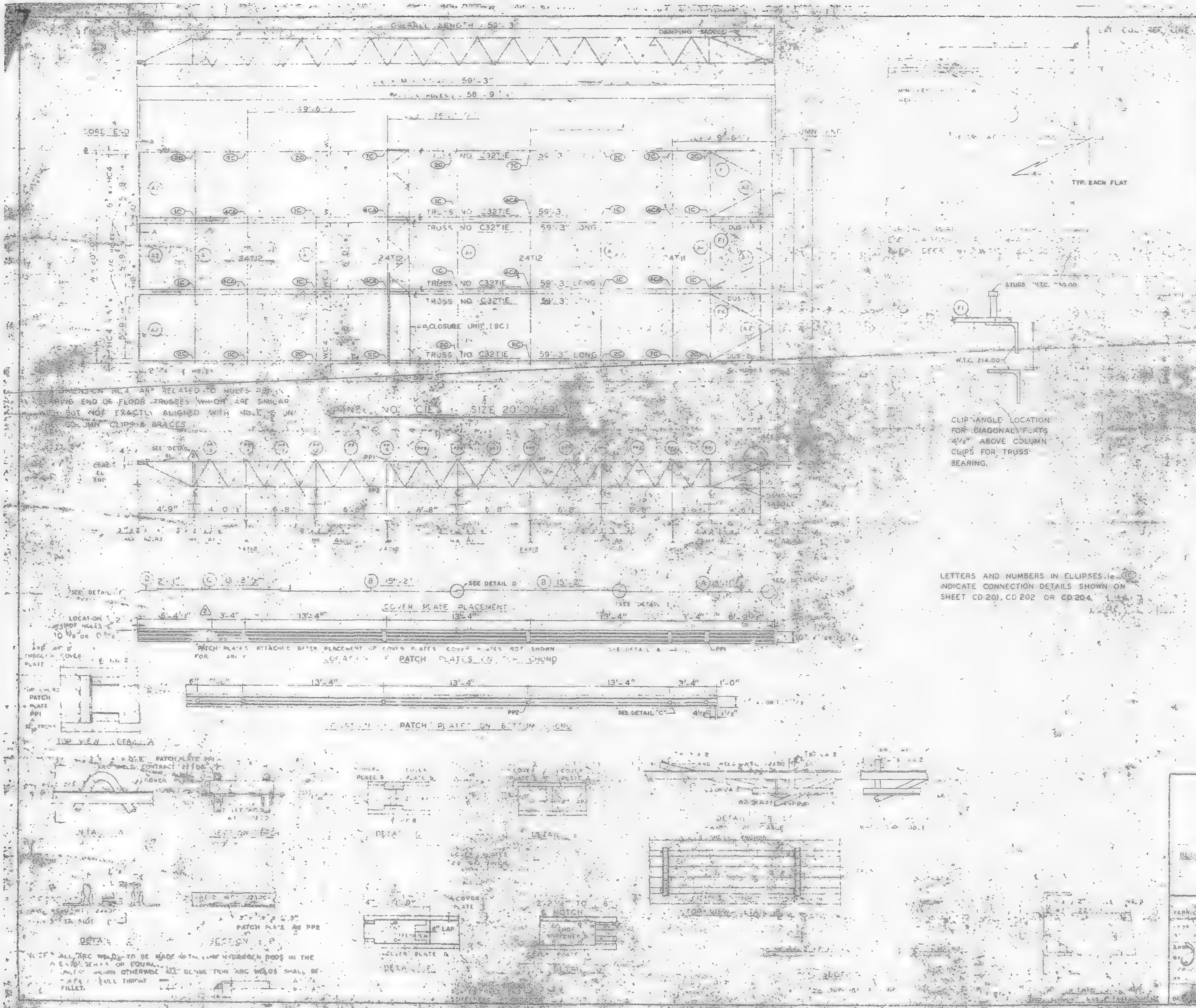
... AUTHORITY

74 (N)

PANEL CRIP SIZE 20'-0" x 57'-7"

BLDG. B FLOORS 74 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-483 B	PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA	DATE 1/2/70	DRAWN BY [illegible] DATE OCT. 23, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT. 23, 1968	IN CHARGE OF PROD. REV.
DETAILED BY [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP CRIP


OVERALL LENGTH 59'-3"
DAMPING SADDLE
59'-3"
58'-9"
CORE END
COLUMN END
TRUSS NO. C32TIE 59'-3"
TRUSS NO. C32TIE 59'-3" LONG
24T12
24T11
TRUSS NO. C32TIE 58'-3" LONG
CLOSURE UNIT (BC)
TRUSS NO. C32TIE 59'-3" LONG
DUS-2
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
PANEL NO. C1E SIZE 20'-0" x 59'-3"
SEE DETAIL B1
DAMPING SADDLE
4'-9"
6'-8"
SEE DETAIL D
15'-2"
COVER PLATE PLACEMENT
3'-4"
13'-4"
6'-2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
PP1
PP2
SEE DETAIL "C"
1'-0"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
PATCH PLATE PP1
COVER PLATE B
COVER PLATE A
DETAIL A
DETAIL B
DETAIL C
DETAIL D
TOP VIEW
8" LAP
NOTCH
COVER PLATE
PATCH PLATE AS PPE
SECTION

DIMENSION HC4 ARE RELATED TO HOLES AT BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE IN COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible] OR EQUAL. UNLESS SHOWN OTHERWISE ALL [illegible] ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	32TIE - 59'-3	[illegible]
[illegible] TRUSSES	T-1	1	[illegible]	[illegible]
	T-2	3	24T [illegible] 9'-1"	ST 212
[illegible] ANGLE	A1	5	3 x 2 [illegible] x 9	ST 403
	A2	4	[illegible]	ST 403
	A3	2	3 x 2 x ¼ x [illegible]	ST 403
DIAGONAL [illegible]			[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] x 2'-3"	ST 400
COVER PLATES	A	3	[illegible]	ST 303
	B	6	9 x 0135 x 15'-2	ST 303
	C	3	9" x 0135 x 13'-[illegible]	ST 303
	D	3	3" x .0135 x [illegible]-1"	ST 303
ANGLE CLIPS	C1	[illegible]	[illegible] x 0'-6	ST 400
#3 SHEAR ANCHOR	SA3	9	REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	[illegible]	[illegible] x 3-5⅞	ST 298
	DUS-2	1	3½ [illegible] x ⅜ x [illegible] 5⅞	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1½ x 1¼ x [illegible] 230 x 6'-6½"	ST 212 CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .30" x 0'-8"	ST 400
	P3	1	4½ x .39" x 1'-0"	ST 400

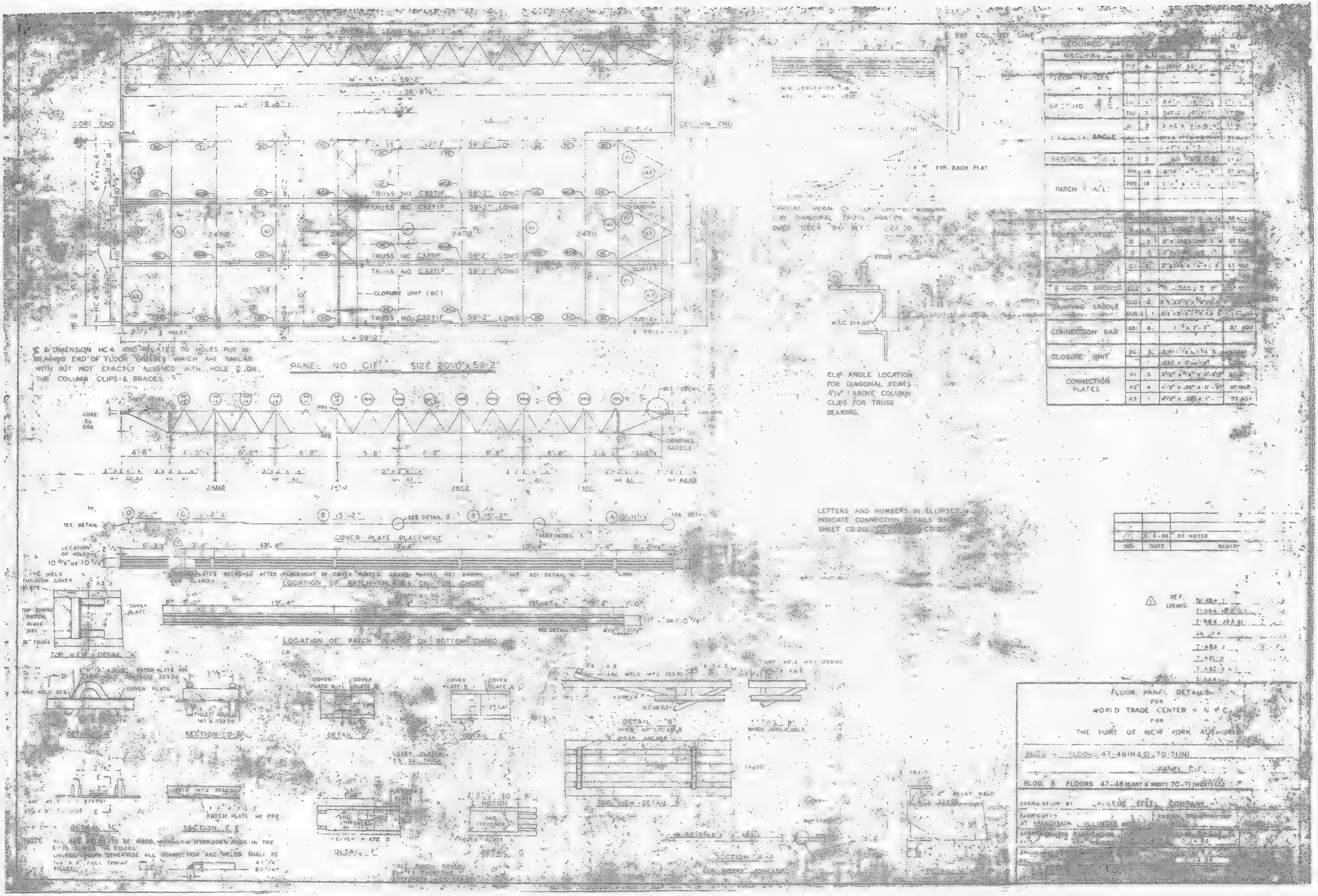
NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

2 [illegible] 9-15-68
[illegible] 7-22-68
[illegible] 41 7-22-68
[illegible] 1-6-69
AB3 2 [illegible]
[illegible] 2 7-22-68
AB2 6 6 7-22-68
AB4 42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG. A [illegible] 10-11 (NORTH & SOUTH)
PANEL TYPE [illegible] 39-3

FABRICATED BY [illegible] STEEL COMPANY
[illegible] BY [illegible]
DESIGN DRAWING NO. AB3-7
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DES.
FABRICATION CONT. NO. WTC 231
SHEET NO. [illegible]


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
M = 59'-2"
58'-8 3/4"
CORE END
COLUMN END
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
TRUSS NO C32T1F 59'-2" LONG
24T12
24T11
CLOSURE UNIT (BC)
HC 4
WC 3
WC 2
2C
7C
1C
4CA
8C
11C
A1
A2
F1
DUS-1
DUS-2
2 1/4 ℄ HOLES
L = 59'-2"
PANEL NO C1F SIZE 20'-0" x 59'-2"
CORE ℄ END
COLUMN
PP1
PP2
DAMPING SADDLE
4'-8"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
COVER PLATE PLACEMENT
SEE DETAIL D
LOCATION OF HOLES
6'-3 3/4"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
9'-0"
13'-4"
13'-4"
1'-0"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL C
TOP VIEW - DETAIL A
TOP CHORD PATCH PLATE PP1
COVER PLATE
PATCH PLATE PP1
COVER PLATE
ARC WELD
SECTION D-D
DETAIL D
DETAIL E
COVER PLATE B
COVER PLATE A
DETAIL B WHEN APPLICABLE
SHEAR ANCHOR
ARC WELD W.T.C. 223.00
TOP VIEW - DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
2 1/2" NOTCH
END STIFFENER
COVER PLATE A
SECTION A-A
END SUPPORT ANGLES
DETAIL H
TYP. EACH FLAT
TYPICAL PLAN OF ... DIAGONAL TRUSS ... PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 223.00
F1
W.T.C. 214.00
COLUMN LINE
6'-2"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, ON CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 3" FULL THROAT FILLET.

REQUIRED MATERIAL				
MATERIAL	MK	NO	SIZE	REF
FLOOR TRUSSES	T1F	6	C32T1F 59'-2"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 [illegible]	[illegible]
	T12	3	24T12 [illegible]	[illegible]
ANGLE	A	3	3 x 2 x [illegible]	ST [illegible]
	[illegible]	[illegible]	[illegible]	ST [illegible]
	A1	4	[illegible]	[illegible]
DIAGONAL FLATS	F1	5	[illegible]	ST [illegible]
PATCH PLATES	PP1	18	[illegible]	ST [illegible]
	PP2	18	[illegible]	ST [illegible]
COVER PLATES	A	[illegible]	[illegible]	ST [illegible]
	B	6	5" x .0[illegible]	[illegible]
	C	3	5" x .0125 x 13'-2"	ST 30[illegible]
	D	3	5" x .0[illegible]	[illegible]
ANGLE CLIPS	C1	2	2" x 1 1/2 x 1/4 [illegible]	ST 400
SHEAR ANCHOR	SA2	5	[illegible]	[illegible]
DAMPING SADDLE	DUS-1	2	3 1/2 x 2 1/2 x [illegible]	[illegible]
	DUS-2	1	3 1/2 x 3 [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2 x 1 1/4 [illegible]	[illegible]
			230 x 5'-6 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST [illegible]
	P2	4	4 1/2" x .39" x 0'-9"	ST 468
	P3	1	4 1/2" x .39" x 1'-[illegible]	ST 451

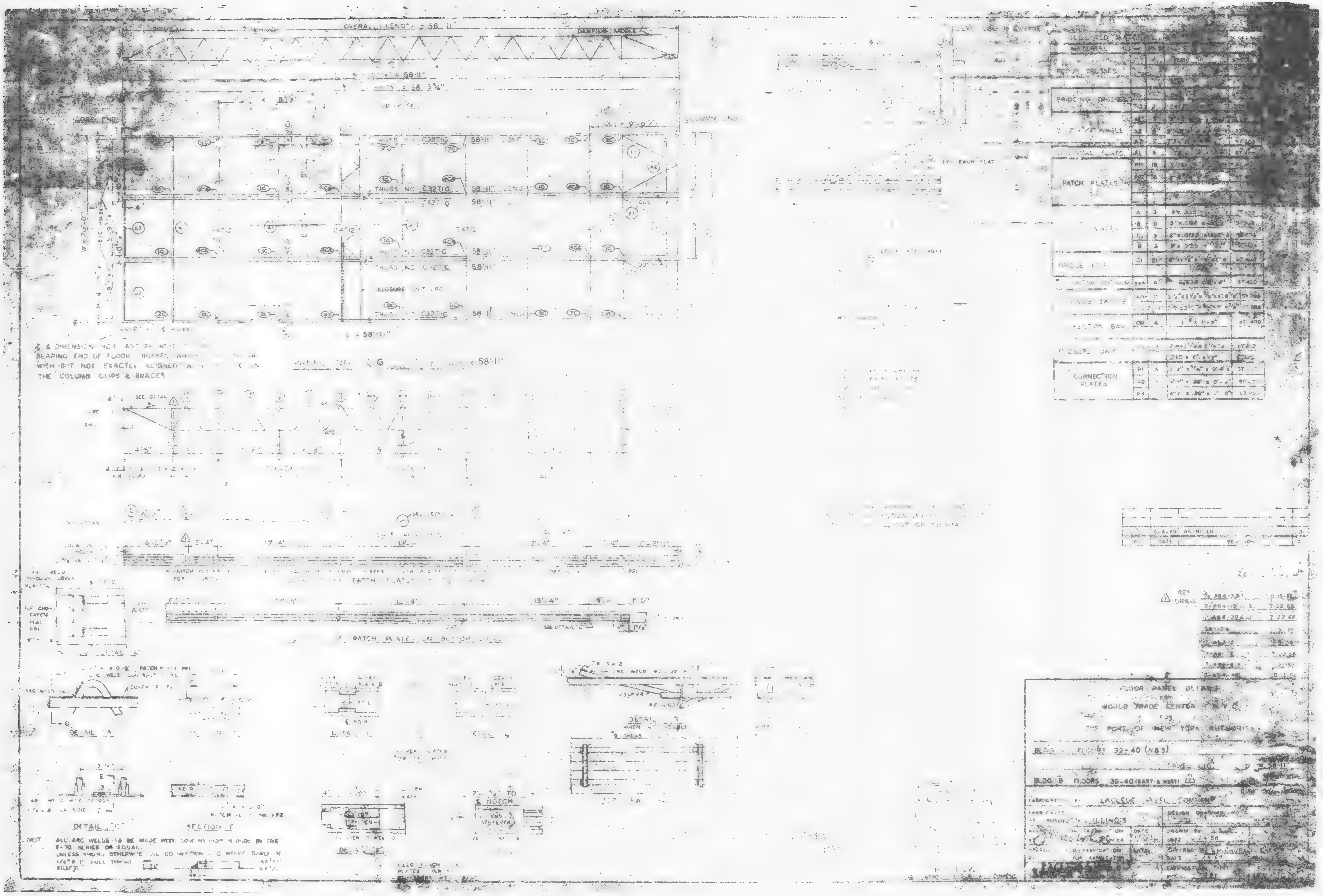
NO.	DATE	REVISION
1	6-6-69	AS NOTED

1 REF. DRWG
7-AB4-2
7-AB4 1 & 2
7-AB4 3 & 4
3A 24
7-AB3 2
7-AB1-2
7-AB5-3 & 7
7-AS4

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

~~BLDG B FLOORS 47-48 (N & S), 70-71 (N)~~
PANEL C1F
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
0 24 68
CHECKED BY T.M. CHUR
0 24 69


OVERALL LENGTH = 58'-11"
DAMPING UNITS
= 58'-11"
= 58'-9 3/4"
6 3/4"
CORE END
TRUSS NO C32T1G
58'-11"
TRUSS NO C32T1G
58'-11"
TRUSS NO C32T1G
58'-11"
TRUSS NO C32T1G
58'-11"
CLOSURE
TRUSS NO C32T1G
58'-11"
58'-11"
1C
2C
4CA
7C
11C
A1
A2
A3
F1
4'-5"
SEE DETAIL
6'-6 1/2"
3'-4"
13'-4"
3'-4"
4"
13'-4"
13'-4"
13'-4"
1'-0"
SEE DETAIL "C"
PATCH PLATES ON BOTTOM CHORD
DETAIL "A"
DETAIL "C"
SECTION "E"
DETAIL "D"
PATCH PLATE PP2
TYP EACH FLAT
SEE DETAIL
NOTCH
END STIFFENER

℄ & DIMENSIONS HC4 ARE TO ... BEARING END OF FLOOR TRUSSES WHICH ... WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

PANEL NO. C G ... 58'-11"

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ... WELDS SHALL BE 1/4" ... FULL THROAT

REQUIRED MATERIAL				REF. DRWG.
MATERIAL				
FLOOR TRUSSES				
BRIDGING TRUSSES				
3 1/2" x 1/4" ANGLE	A2			
PATCH PLATES	PP1	18		
	PP2	18		
PLATES	A	3		ST 403
	B	6		
	C	3		
	D	3		
ANGLE CLIP	C1	21		ST 400
		9	REBAR	ST 400
CONNECTION BAR	CB1	4		ST 400
CONNECTION PLATES	P1	5		
	P2			
	P3		4" x .30" x 1'-0"	

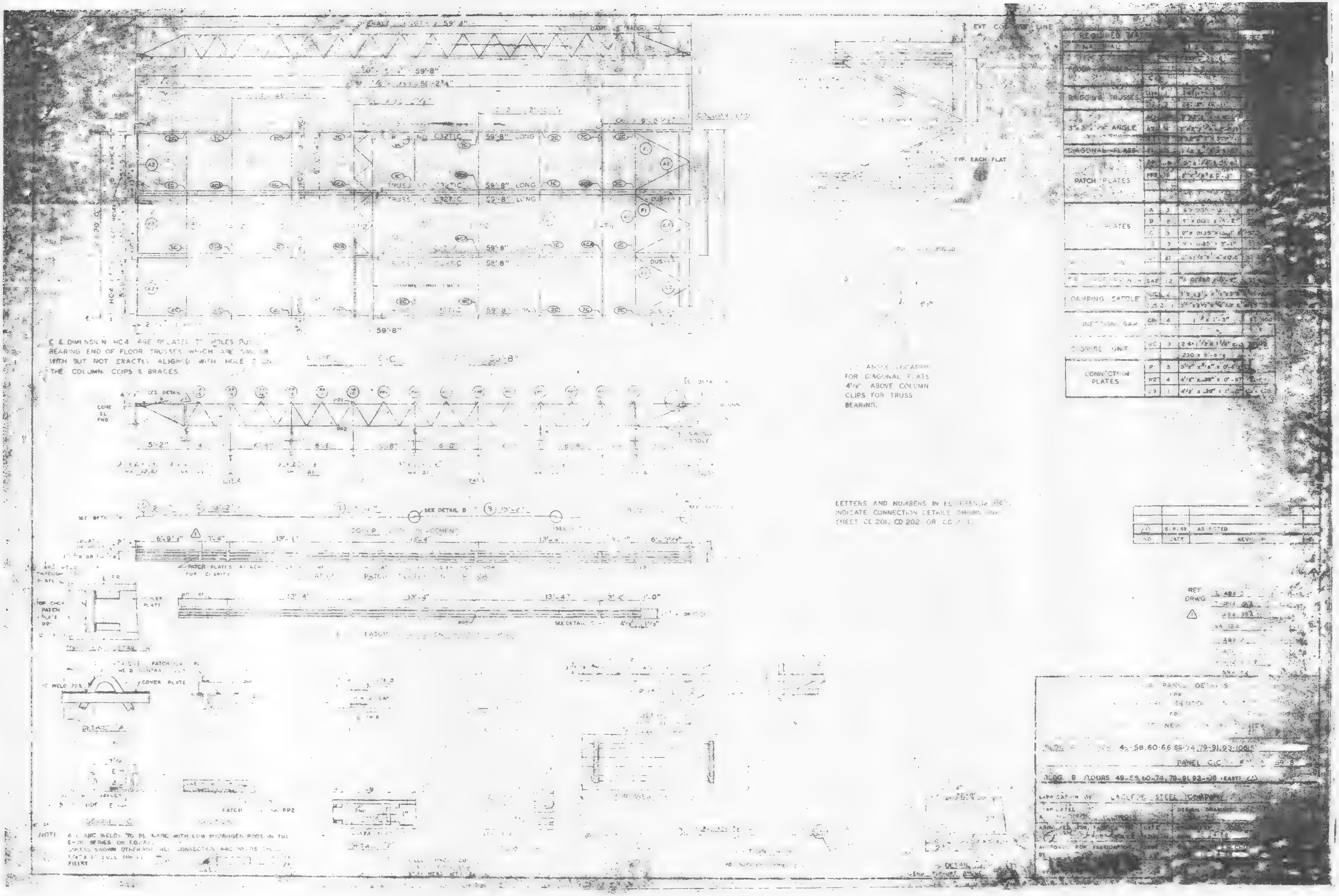
1	6-6-69	AS NOTED
NO.	DATE	REVISION

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (N&S)
PANEL C/G 58'-11"
BLDG. B FLOORS 39-40 (EAST & WEST)

FABRICATOR: LACLEDE STEEL COMPANY
ST. MADISON, ILLINOIS

DRAWN BY ... DATE ... 24-68
CHECKED BY L.M. CHURA DATE ... 24-69


59'-8"
TRUSS C32T1C 59'-8" LONG
TRUSS C32T1C 59'-8" LONG
TRUSS C32T1C 52'-8" LONG
COLUMN LINE
EXT. COLUMN LINE
CORE END
HC4
DUS-1
TYP. EACH FLAT
CORE EL END
SEE DETAIL
PP1
PP2
5'-2"
6'-8"
6'-8"
SEE DETAIL D
6'-9½"
13'-4"
13'-4"
13'-4"
6'-2½"
PATCH PLATES
FOR CLARITY
TOP CHORD PATCH PLATE PP1
COVER PLATE
DETAIL A
DETAIL C
PATCH PP2
TYP. WELD

€ & DIMENSION HC4 ARE RELATED TO HOLES [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE [illegible] THE COLUMN CLIPS & BRACES.

[illegible] ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN [illegible] INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD [illegible]

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS [illegible] 1/4" x [illegible] FULL THROAT FILLET

REQUIRED MATERIAL

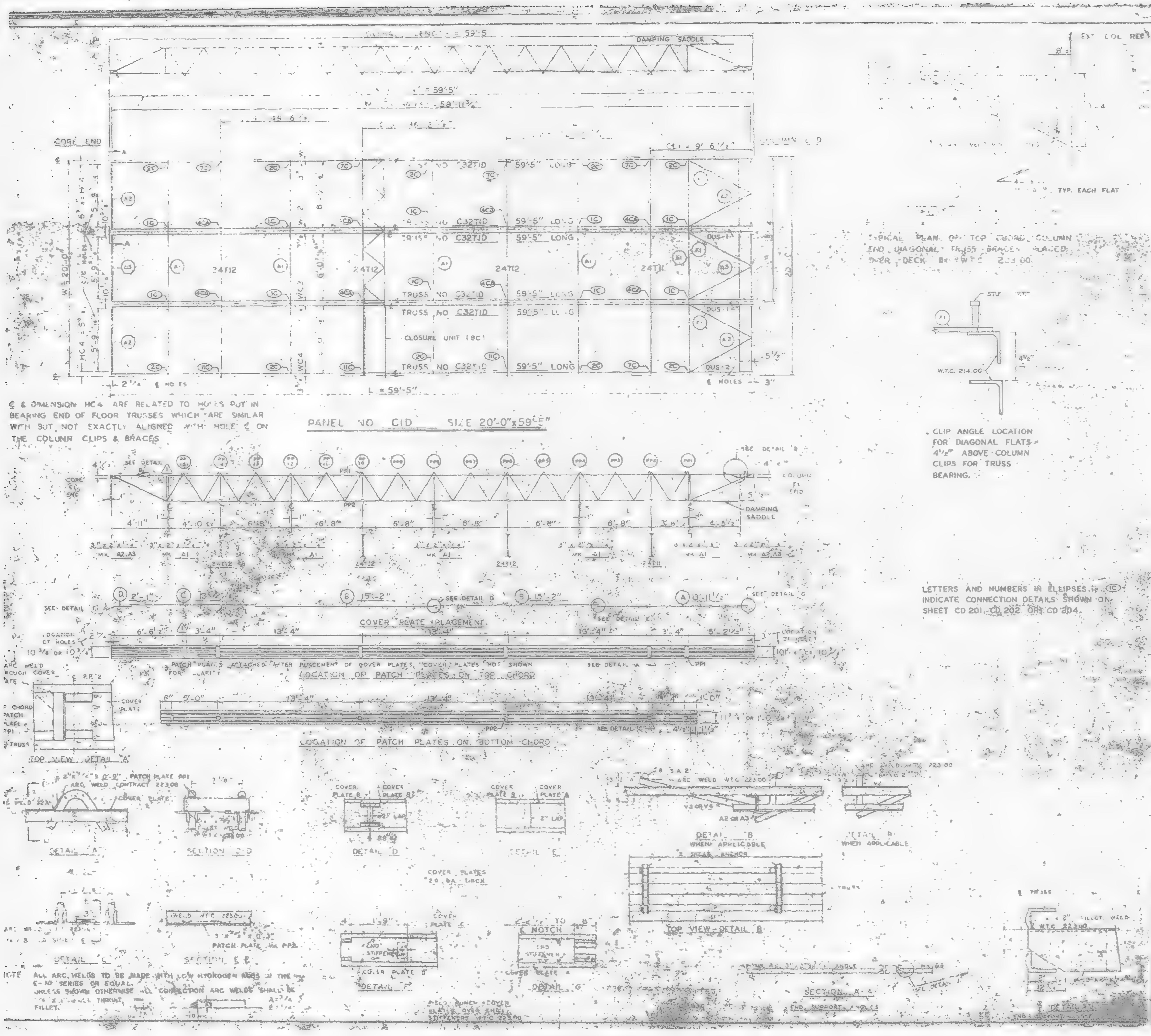
MATERIAL	MARK	NO.	SIZE
[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	[illegible]	[illegible]	[illegible]
	[illegible]	3	[illegible]
3" x 3" x ⅜" ANGLE	[illegible]	[illegible]	[illegible]
	A2	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	[illegible]	[illegible]
	PP2	36	[illegible] x 0'-3"
[illegible] PLATES	A	3	[illegible] x .0135 x [illegible]
	B	6	9" x .0135 x [illegible]
	C	3	9" x .0135" x [illegible]
	D	3	9" x .0135" x 2'-1"
[illegible]	[illegible]	21	[illegible] x 0'-6"
[illegible]	SA2	12	[illegible] REBAR x [illegible]
DAMPING SADDLE	DUS 1	4	3½" x 3½" x [illegible]
	DUS 2	1	3½" x 3½" x [illegible]
[illegible] BAR	CB1	4	1" [illegible] x 1'-3"
CLOSURE UNIT	BC	3	2-[illegible] x 1½" x 1⅛" [illegible] 230 x 8'-8 [illegible]
CONNECTION PLATES	P1	5	3½" x [illegible] x 0'-6"
	P2	4	4½" x .38" x 0'-9"
	P3	1	4½" x .38" x 1'-[illegible]

NO.	DATE	REVISION
1	8-8-69	AS LISTED

REF. DRWG.

[illegible] PANEL DETAILS
FOR
[illegible] CENTER
[illegible] NEW [illegible]

BLDG. [illegible] FLOORS 49-58, 60-66, 66-74, 79-91, 93-106 (S)
PANEL C1C [illegible] 59'-8"
BLDG. B FLOORS 49-59, 60-74, 79-91, 93-106 (EAST)
FABRICATION BY [illegible] STEEL COMPANY
DESIGN. DRAWING [illegible]
APPROVED FOR FABRICATION
[illegible] 6-24-68


DAMPING SADDLE
L = 59'-5"
CORE END
COLUMN END
TRUSS NO C32T1D 59'-5" LONG
CLOSURE UNIT (BC)
24T12
24T11
DUS-1
DUS-2
PANEL NO C1D SIZE 20'-0"x59'-5"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
TYP. EACH FLAT
W.T.C. 214.00
4½"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. (IC) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" [illegible] THROAT FILLET.

REQUIRED MATERIAL PER PANEL

MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T1D	6	C32T1D 59'-5"	ST 200
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT 211
	T12	3	24T12 - 19'-11"	BT 212
3"x2"x¼" ANGLE	A1	18	3"x2"x¼"x 19'-3"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x¼"x 5'-[illegible]	ST 403
DIAGONAL FLATS	F1	5	1⅛"x [illegible]"x 6'-9"	ST 402
PATCH PLATES	PP1	18	2"x¼"x 0'-2"	ST 400
	PP2	48	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9"x 0.135"x 13'-11½"	ST 303
	B	6	9"x 0.135"x 15'-2"	ST 303
	C	3	9"x 0.135"x 1'-2½"	ST 303
	D	3	9"x 0.135"x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1½"x¼"x 0'-6"	ST 400
#3 SHEAR ANCHOR	SA2	9	#3 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x 3'-6⅞"	ST 298
	DUS-2	1	3½"x3½"x⅜"x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1"[illegible]x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1½"x 1¼" x	BT 212
			.230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½"x ⅜"x 0'-6½"	ST 400
	P2	4	4½"x .39"x 0'-9"	ST 400
	P3	1	4½"x .39"x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	G.D.

REF DRWG

7-AB4-3,3.1	10-15-68
7-AB4-15 & 6	7-22-68
△1 7-AB4-39 & 41	7-22-68
SA-1241	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)

PANEL C1D [illegible] x 59'-5"

BLDG. B FLOORS 81-82 (WEST) △1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-7

APPROVED FOR FABRICATION

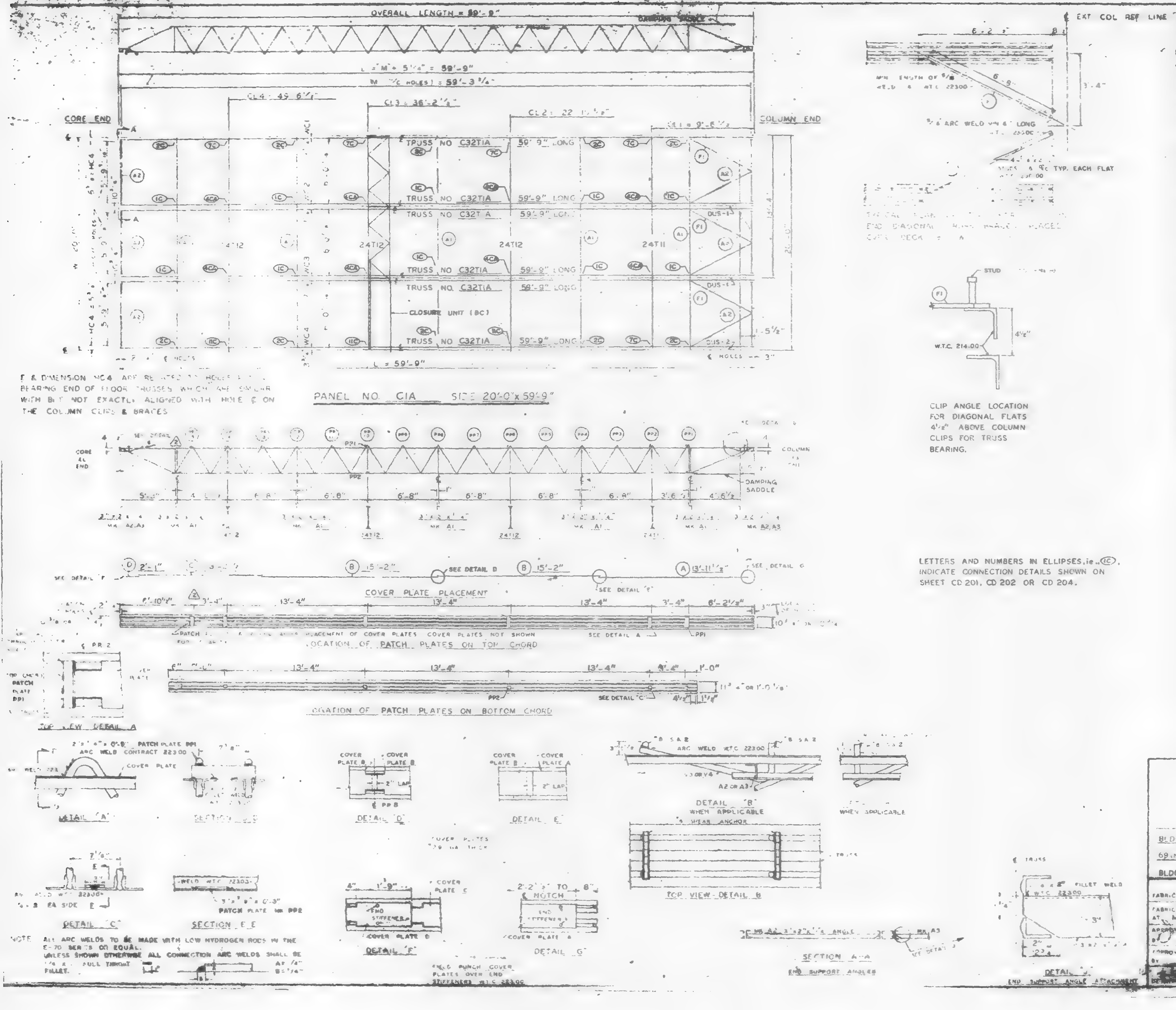
DATE

DRAWN BY [illegible]
DATE 10-24-68

APPROVED FOR FABRICATION

DATE

CHECKED BY T.M. CHURA
DATE 10-24-68


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
L = 59'-9"
CL 4 : 49' 6 1/4"
CL 3 : 36'-2 1/2"
CL 2 : 22' 11 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
TRUSS NO. C32T1A 59'-9" LONG
24T12
24T12
24T11
CLOSURE UNIT (BC)
DUS-1
DUS-2
PANEL NO. C1A SIZE 20'-0" x 59'-9"
EXT COL REF LINE
W.T.C. 214.00
STUD
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL F
SEE DETAIL G
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL A
SEE DETAIL C
TOP VIEW DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
DETAIL END SUPPORT ANGLE ATTACHMENT
PATCH PLATE MK PP2
COVER PLATE

E & DIMENSION WC4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE E ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/8 x FULL THROAT FILLET. A = 1/8" B = 1/16"

REQUIRED MATERIAL PER PANEL				REF. DRWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	[illegible]	ST208
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	ST2[illegible]
	T12	3	24T12 - 19'-11"	ST212
3"x2"x1/4" ANGLE	A1	8	3"x2"x1/4"x [illegible]	ST 403
	A2	4	3"x2"x1/4"x 5'-11 1/4"	ST 403
	A3	2	3"x2"x1/4"x 5'-10 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 403
PATCH PLATES	PP1	10	2"x 1/4"x 0'-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-8"	ST-400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 -- 1 1/2"x[illegible]x .230 x 5'-6 1/2"	ST212
CONNECTION PLATES	P1	5	3 1/2"x 3/8"x 0'-4 1/2"	[illegible]
	P2	4	4 1/2" x .30" x 0'-0"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

2 REF DRWG

7-AB4-3	10-15-68
7-AB4-5 & 16	7-22-68
7-AB4-41	7-22-68
SA-12 4	1-5-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-0 & 7	7-22-68
7-AB4-42	10-3-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-54, 60-66, 68,
69 (NORTH) PANEL C1A 20' x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-56, 60-65 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-7

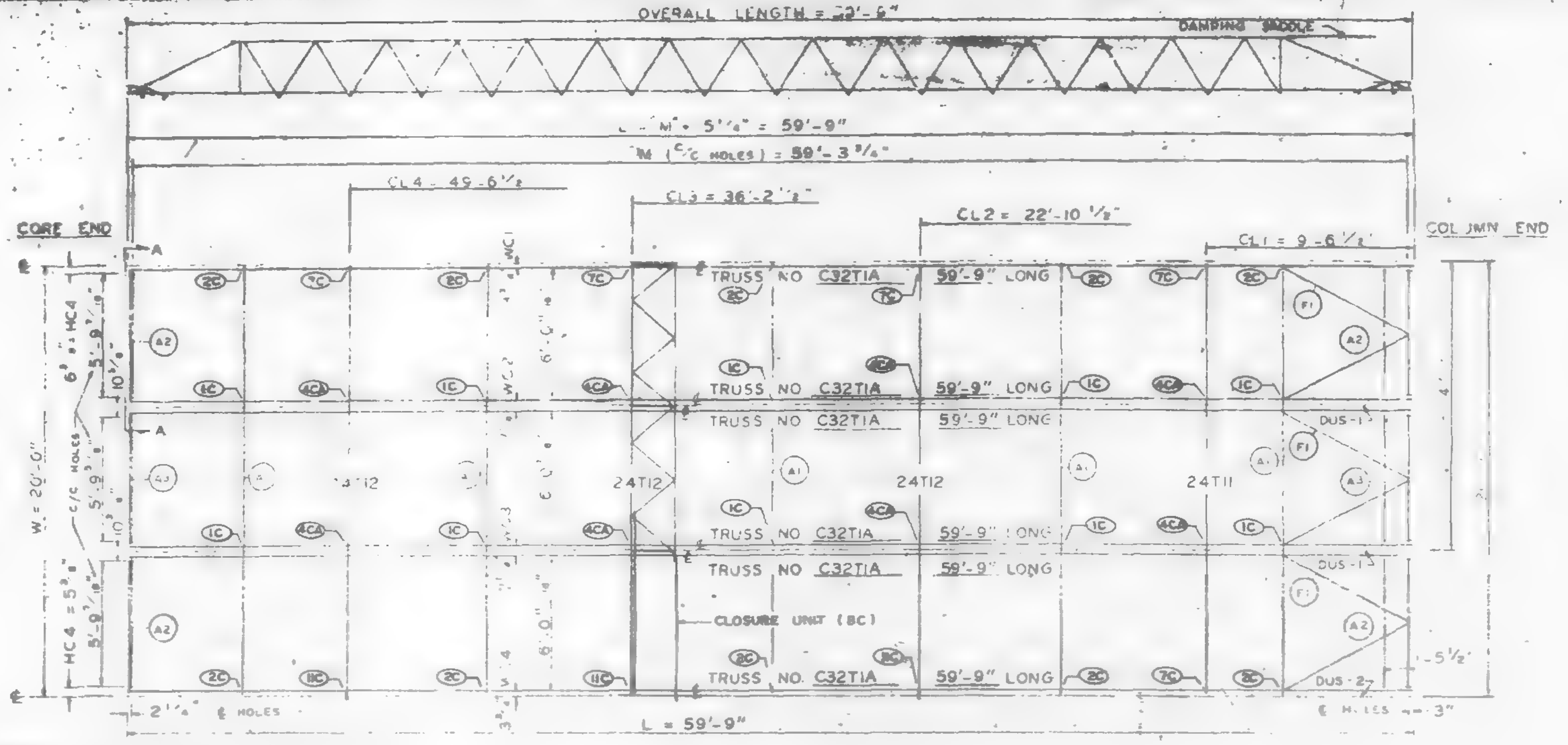
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE [illegible]

DRAWN BY [illegible] DATE APRIL 10, 1968

APPROVED FOR FABRICATION BY [illegible] DATE

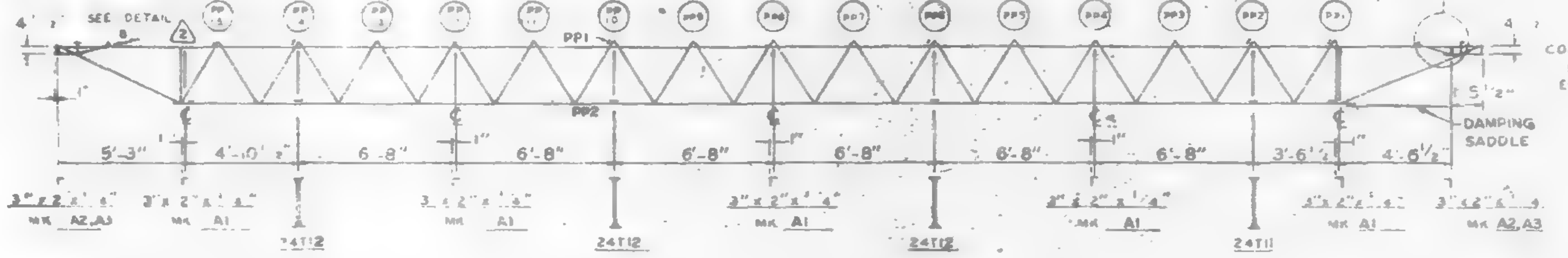
CHECKED BY [illegible] DATE APRIL 10, 1968

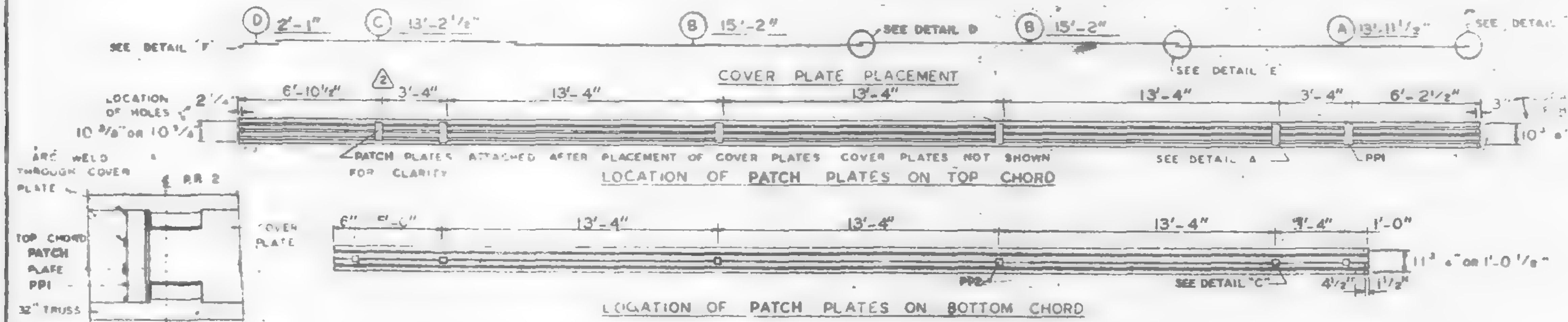
FABRICATOR CONT. NO. [illegible]

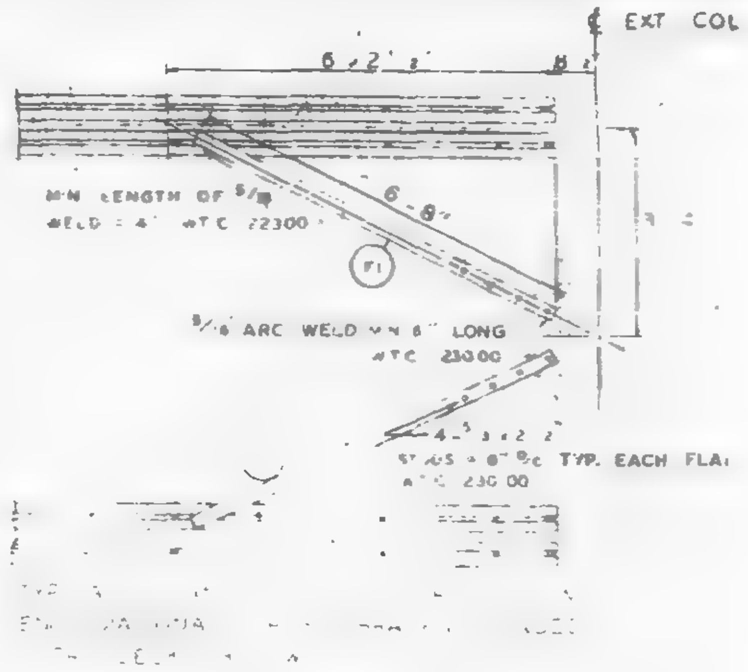

OVERALL LENGTH = 62'-6"
DAMPING SADDLE
"M" + 5'1/4" = 59'-9"
"N" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1A 59'-9" LONG
24T12
24T11
CLOSURE UNIT (BC)
W = 20'-0"
HC4 = 5'-9 3/4"
C/C HOLES
DUS-1
DUS-2
2 1/4" ℄ HOLES
L = 59'-9"
℄ HOLES
1'-5 1/2"

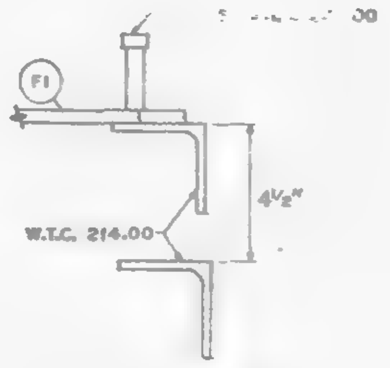
℄ & DIMENSION HC4 ARE RELATED TO HOLES P.J1 @ BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL NO. C1A SIZE 20'-0" x 59'-9"


SEE DETAIL B
CORE EL END
COLUMN EL END
PP1
PP2
DAMPING SADDLE
5'-3"
4'-10"
6'-8"
3'-6 1/2"
4'-6 1/2"
3"x2"x1/4" MK A2, A3
MK A1
24T12
24T11


SEE DETAIL "F"
D 2'-1"
C 13'-2 1/2"
B 15'-2"
SEE DETAIL D
B 15'-2"
A 13'-11 1/2"
SEE DETAIL "G"
SEE DETAIL "E"
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 3/4"
6'-10 1/4"
3'-4"
13'-4"
6'-2 1/2"
ARC WELD THROUGH COVER PLATE
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
TOP CHORD PATCH PLATE PP1
32" TRUSS
COVER PLATE
TOP VIEW DETAIL A
1'-0"
11 3/4" OR 1'-0 1/8"
SEE DETAIL "C"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD


℄ EXT. COL. REF. LINE
6'-2 1/2"
MIN. LENGTH OF 3/16 WELD = 4" WTC 22300
6'-8"
F1
3/16 ARC WELD MIN. 6" LONG WTC 23000
TYP. EACH FLAT


F1
W.T.C. 214.00
4 1/2"

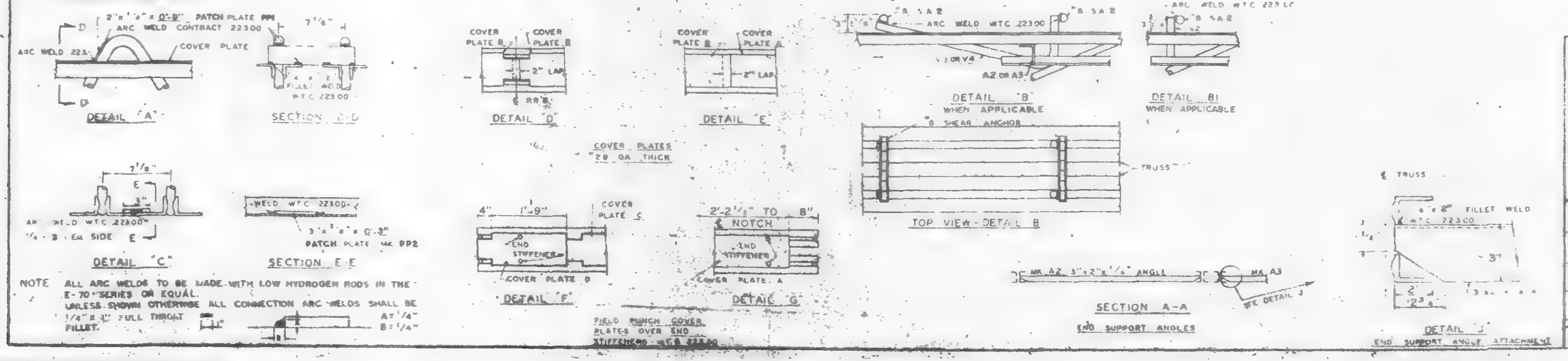
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A – 59'-9"	ST 291A
BRIDGING TRUSSES	T11	1	24T11 – 19'-11"	BT 211
	T12	3	24T12 – 19'-11"	BT 212
3"x2"x1/4" ANGLE	A1	8	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-[illegible] 3/4"	ST 403
DIAGONAL FLATS	F1	5	[illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	A	3	[illegible]	[illegible]
	B	6	9" x [illegible] x 5'-2"	ST 403
	C	3	[illegible] x 3'-2 [illegible]	ST 403
	D	3	[illegible] x 2'-1"	ST 403
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-5"	ST 400
#6 SHEAR ANCHOR	SA2	12	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-8 7/8"	ST 298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1 1/4" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 1/2"x1 1/2"x1 1/4"x	BT 212
			230 x 5'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

2 REF.
7-AB3 3 — 1-15-68
7-AB4 5 & 6 — 7-26-68
7-AB4 41 — 7-26-68
7-SA 24 — 1-5-59
7-AB3 — 1-3-58
7-AB1 2 — 7-26-68
7-AB2 5 & 7 — 7-26-58
7-AB4 42 — 10-5-68


2"x3/8"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
ARC WELD 223..
DETAIL "A"
7'-6"
FILLET WELD W.T.C. 22300
SECTION D-D
COVER PLATE B
COVER PLATE E
2" LAP
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
#6 SA2
ARC WELD WTC 22300
A2 OR A3
DETAIL "B" WHEN APPLICABLE
ARC WELD WTC 223.00
DETAIL B1 WHEN APPLICABLE
#6 SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL B
7'-8"
3"
ARC WELD WTC 22300
1/4 - 3 EA. SIDE
DETAIL "C"
WELD WTC 22300
3"x3/8"x0'-3"
PATCH PLATE MK PP2
SECTION E-E
COVER PLATES 28 GA THICK
4"
1'-9"
COVER PLATE
END STIFFENER
COVER PLATE B
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 22300
MK A2, 3"x2"x1/4" ANGLE
MK A3
SEE DETAIL J
SECTION A-A
END SUPPORT ANGLES
℄ TRUSS
FILLET WELD WTC 22300
3"
DETAIL J
END SUPPORT ANGLE ATTACHMENT

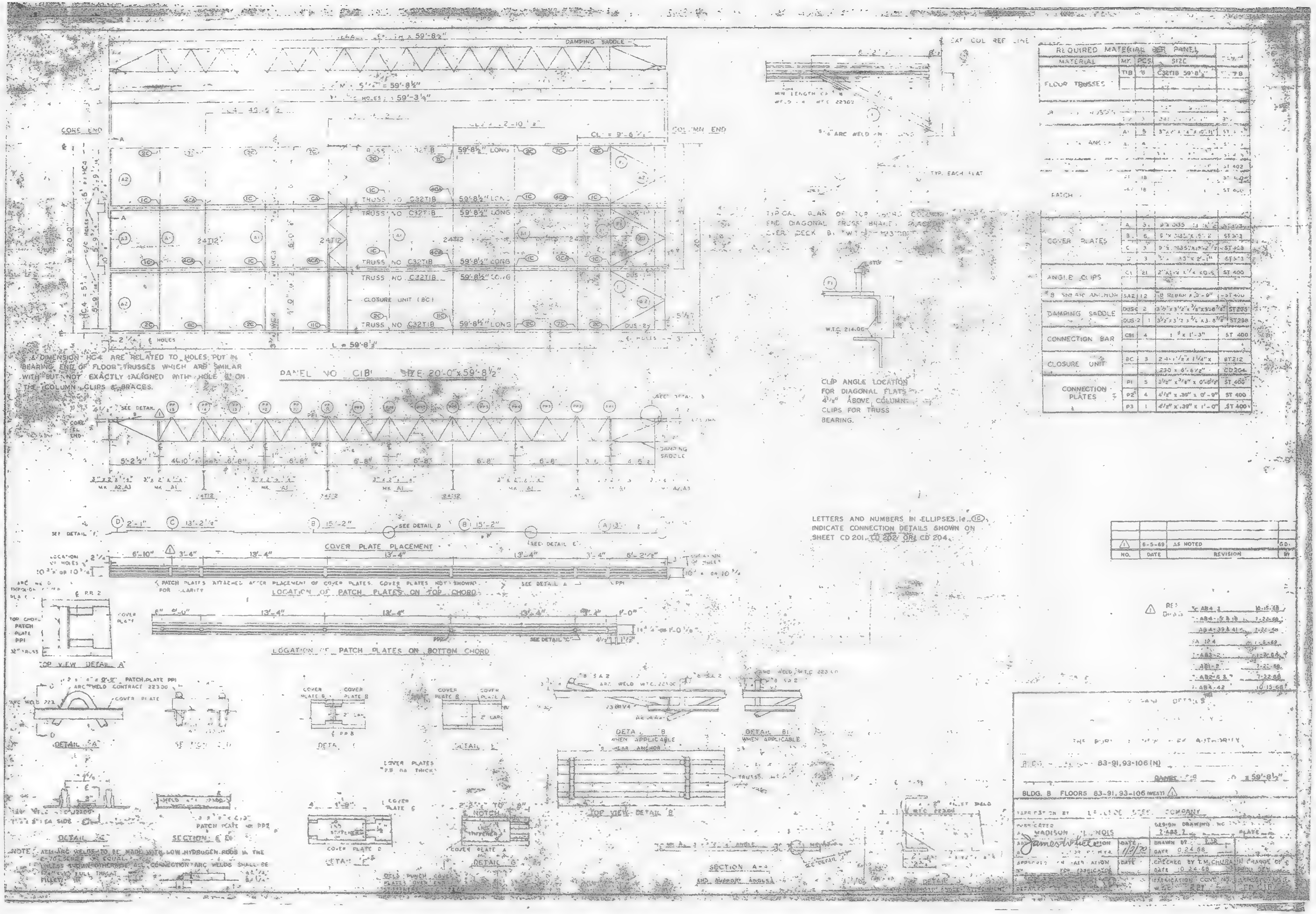
NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 2" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

[illegible] 58 NORTH & SOUTH [illegible] 60-66, 68, 69 (NORTH)
PANEL C1A 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 2

FABRICATION BY [illegible] STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3 7 PLATE	
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE APRIL 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP C1A


DAMPING SADDLE
59'-3¼"
CORE END
COLUMN END
CL = 9'-6¼"
TRUSS NO C32T1B
59'-8½" LONG
24T12
CLOSURE UNIT (8C)
2¼" ℄ HOLES
L = 59'-8½"
SEE DETAIL B
PP1
PP2
CORE ℄ END
DAMPING SADDLE
5'-2½"
4'-10"
6'-8"
COVER PLATE PLACEMENT
6'-10"
3'-4"
13'-4"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION E-E
DETAIL "C"
DETAIL "B"
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
W.T.C. 214.00
COVER PLATES
PATCH PLATE PP2
TYP. EACH FLAT
ARC WELD

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO C1B' SIZE 20'-0" x 59'-8½"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., ⑴C, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	SIZE	[illegible]
FLOOR TRUSSES	T1B	8	C32T1B 59'-8½"	[illegible] 78
[illegible]	12	3	24T [illegible]	[illegible]
[illegible] ANGLES	A1	8	3"x 4" x ¼" x 15'-11"	ST [illegible]
	[illegible]	4	[illegible]	[illegible]
				ST 402
		18		ST 400
PATCH		18		ST 400
COVER PLATES	A	3	[illegible] .085 [illegible]	ST 303
	B	6	9"x .085" x 15'-2"	ST 303
	C	3	9"x .135" x 13'-2½"	ST 303
	D	3	[illegible] .33" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x 2" x ¼ x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x 3½"x ⅜"x 3'-8⅞"	ST 205
	DUS-2	1	3½"x 3½"x ⅜"x 3'-8⅞"	ST 298
CONNECTION BAR	CB1	4	1 # x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2-4 x 1½" x 1¼" x .230 x 6'-6½"	ST 212 CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-5-69	AS NOTED	GD.

RES. DWGS.

AB4-3	10-15-68
AB4-5 & 10	7-22-68
AB4-39 & 41	7-22-68
SA 12 4	1-5-69
AB3-2	7-22-68
AB1-2	7-22-68
AB2-6 & 7	7-22-68
AB4-42	10-15-68

[illegible] DETAILS

THE PORT OF NEW YORK AUTHORITY

BLDG. [illegible] 83-91, 93-106 (N)

PANEL C1B [illegible] x 59'-8½"

BLDG. B FLOORS 83-91, 93-106 (WEST) 1

[illegible] COMPANY

MADISON, ILLINOIS

James White

DATE 1/2/70

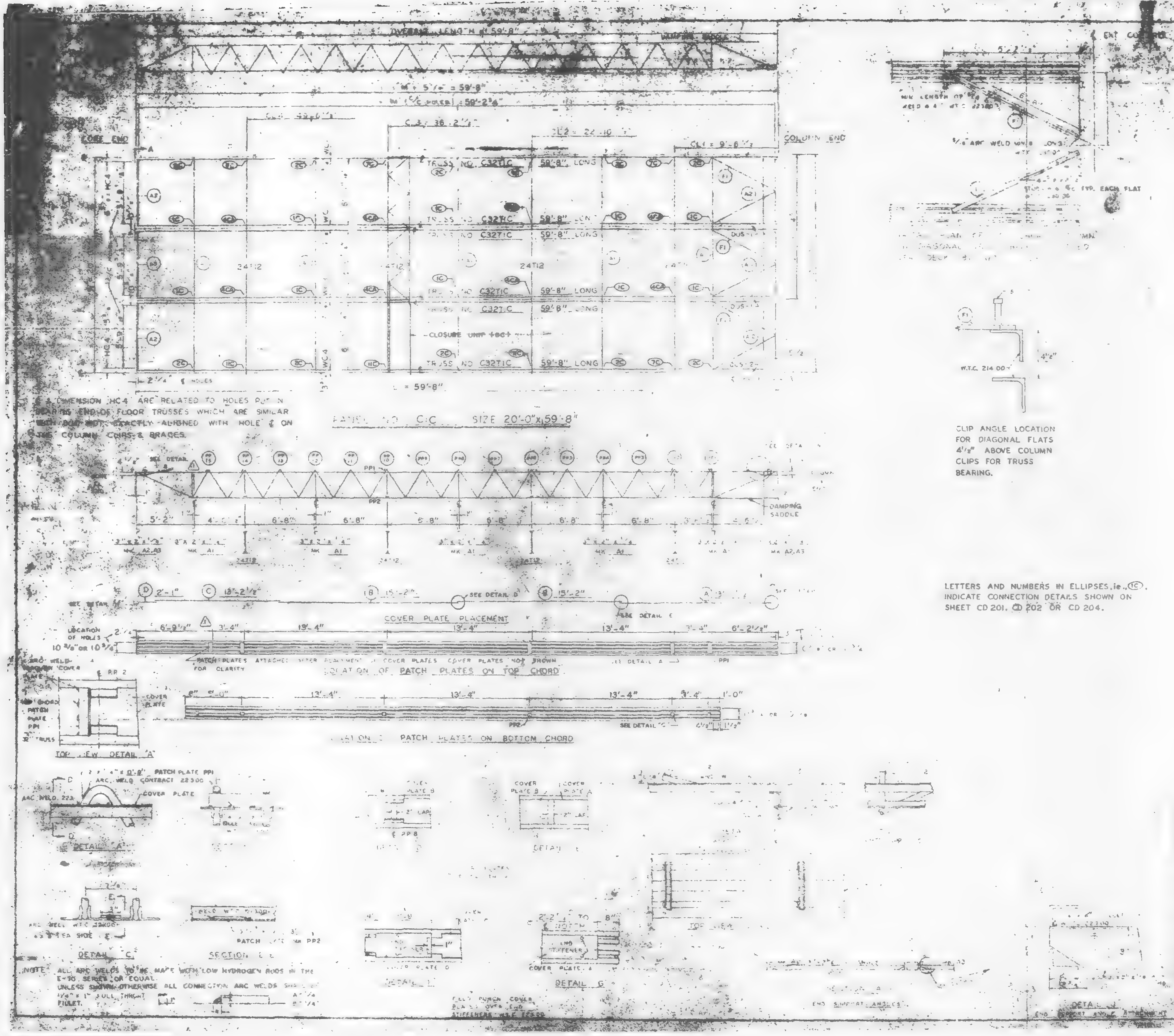
DESIGN DRAWING NO. 7-AB3-2

DRAWN BY [illegible]

DATE [illegible] 24 68

CHECKED BY T.M. CHURA

DATE 10-24-68


OVERALL LENGTH = 59'-8"
59'-8"
59'-2 3/4"
C.J. = 36'-2 1/2"
CORE END
COLUMN END
TRUSS NO C32T1C 59'-8" LONG
24T12
CLOSURE UNIT
2 1/4" ℄ HOLES
L = 59'-8"
PP1
PP2
5'-2"
6'-8"
DAMPING SADDLE
SEE DETAIL B
COVER PLATE PLACEMENT
6'-9 1/2"
3'-4"
13'-4"
6'-2 1/2"
LOCATION OF HOLES 10 3/8" OR 10 5/8"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
DETAIL G
W.T.C. 214 00
4 1/2"
END SUPPORT ANGLES

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. C1C SIZE 20'-0" x 59'-8"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

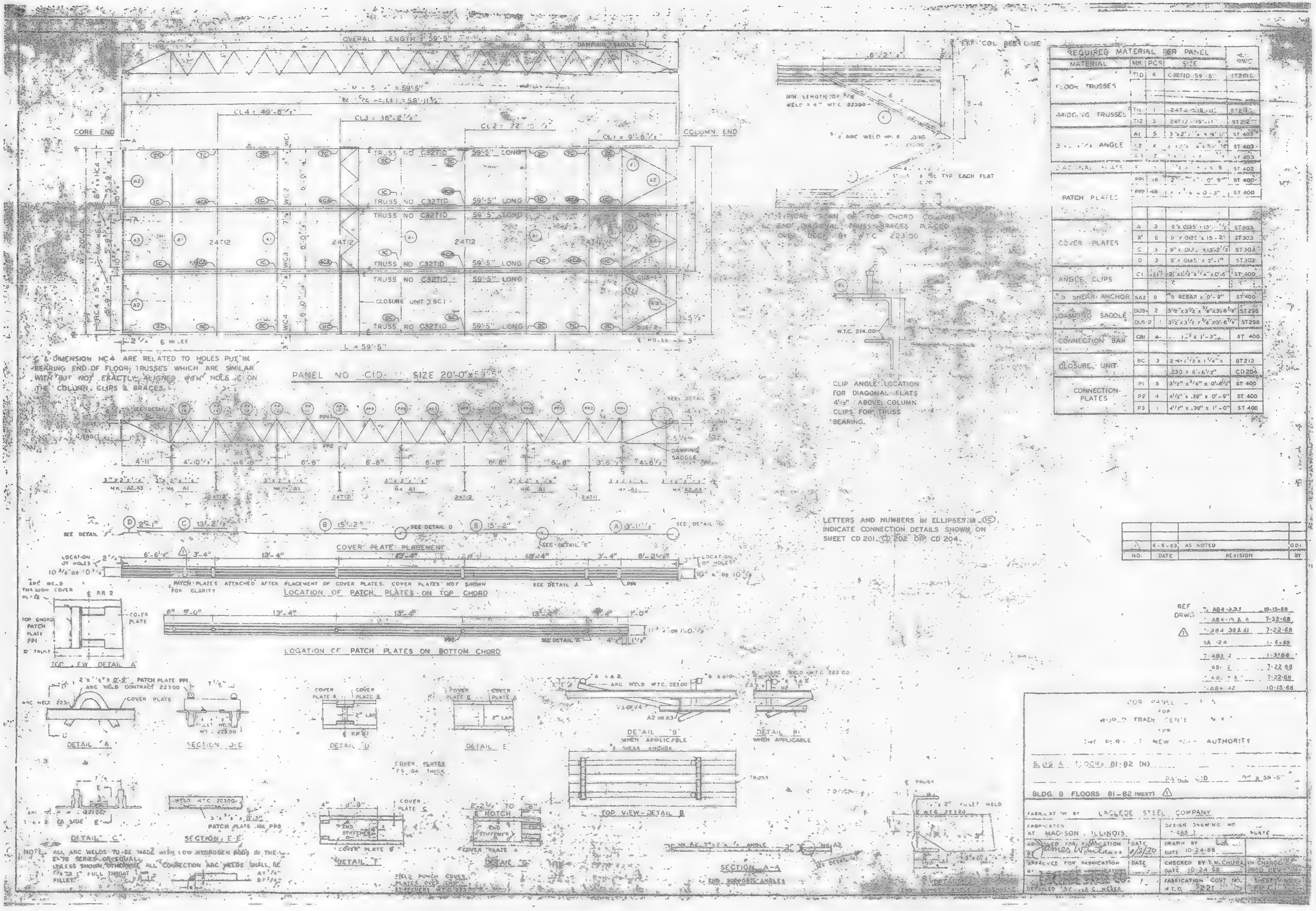
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PC'S	SIZE	REF DWG
FLOOR TRUSSES	1C	[illegible]	C32T1C 59'-8"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 18'-11"	BT210
	T12	3	24T12 18'-11"	BT 210
3" x 2" x 1/4" ANGLE	A1	8	3" x 2" x 1/4" x [illegible]	ST 403
	A2	4	3" x 2" x 1/4" x 5'-[illegible]	ST 403
	A3	2	3" x 2" x 1/4" x [illegible]	ST 400
DIAGONAL FLATS	F1	6	[illegible] 6-0	ST 400
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
[illegible]	[illegible]	3	[illegible]	ST 303
	[illegible]	6	[illegible]	ST 304
	[illegible]	3	[illegible] 3'-2 1/2"	ST 304
	[illegible]	[illegible]	2'-1"	ST 303
[illegible]	[illegible]	21	[illegible]	ST 400
[illegible]	SA2	12	[illegible] 0'-9"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] x 3'-6 7/8"	ST 298
	[illegible]	[illegible]	[illegible] x 3'-6 7/8"	ST 298
[illegible]	CB1	4	[illegible]	ST 400
CLOSURE UNIT	[illegible]	[illegible]	[illegible]	ST 212
	[illegible]	[illegible]	[illegible]	CD 204
CONNECTION PLATES	P1	5	[illegible] x 0'-5 1/2"	ST 400
	P2	4	4" x .39" x 0'-9"	ST 400
	P3	[illegible]	4" x .39" x 1'-0"	ST 400

NO	DATE	REVISION	BY
1	6-6-69	AS NOTED	GDC

10-5-69
7-24-69
39 & 41
6-6-69
7-22-68
1-24-68
10-15-68

49-58, 60-66, 68-74, 79-91, 93-106 (S)
x 59'-8"
BLDG. 8 FLOORS 49-58, 60-74, 79-91, 93-106 (EAST)

ILLINOIS
APPROVED FOR FABRICATION
James W. White
DATE 1/2/70
DRAWN BY
DATE 10-24-68
APPROVED FOR FABRICATION
DATE
CHECKED BY T.M. CHURAT
DATE 10-24-68
FABRICATION CONT. NO
W.T.C. 221
SHEET NO


OVERALL LENGTH = 59'-5"
DAMPING SADDLE
CORE END
COLUMN END
CL4 = 49'-8½"
CL3 = 36'-8½"
CL2 = 22'-10"
CL1 = 9'-6½"
TRUSS NO C32T1D
59'-5" LONG
24T12
CLOSURE UNIT (BC)
L = 59'-5"
PANEL NO CID SIZE 20'-0"x59'-5"
SEE DETAIL
COLUMN
4'-11"
4'-10½"
6'-8"
3'-6"
4'-6½"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW - DETAIL B
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 22300
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
W.T.C. 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES (IC) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D 59'-5"	ST201D
BRIDGING TRUSSES	T11	1	24T4 - 19'-11"	BT2[illegible]
	T12	3	24T12 - 19'-11"	BT212
3 x [illegible] ANGLE	A1	5	3"x2"x¼"x 9'-11"	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	[illegible]	[illegible]	[illegible] 9	ST 402
PATCH PLATES	PP1	18	[illegible] 0'-9"	ST 400
	PP2	48	[illegible] 0'-3"	ST 400
COVER PLATES	A	3	9"x 0135"x 13'-[illegible]½"	ST303
	B'	6	9"x 0135"x 15'-2"	ST303
	C	3	9"x 0135"x 13'-2½"	ST303
	D	3	9"x 0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x 0'-6"	ST 400
#5 SHEAR ANCHOR	SA2	9	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1⅝ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-[illegible] 1½"x 1¼"x	BT212
			230 x 6'-6½"	CD204
CONNECTION PLATES	P1	5	3½"x⅜"x 0'-6½"	ST 400
	P2	4	4½"x .38"x 0'-9"	ST 400
	P3	1	4½"x .30"x 1'-0"	ST 400

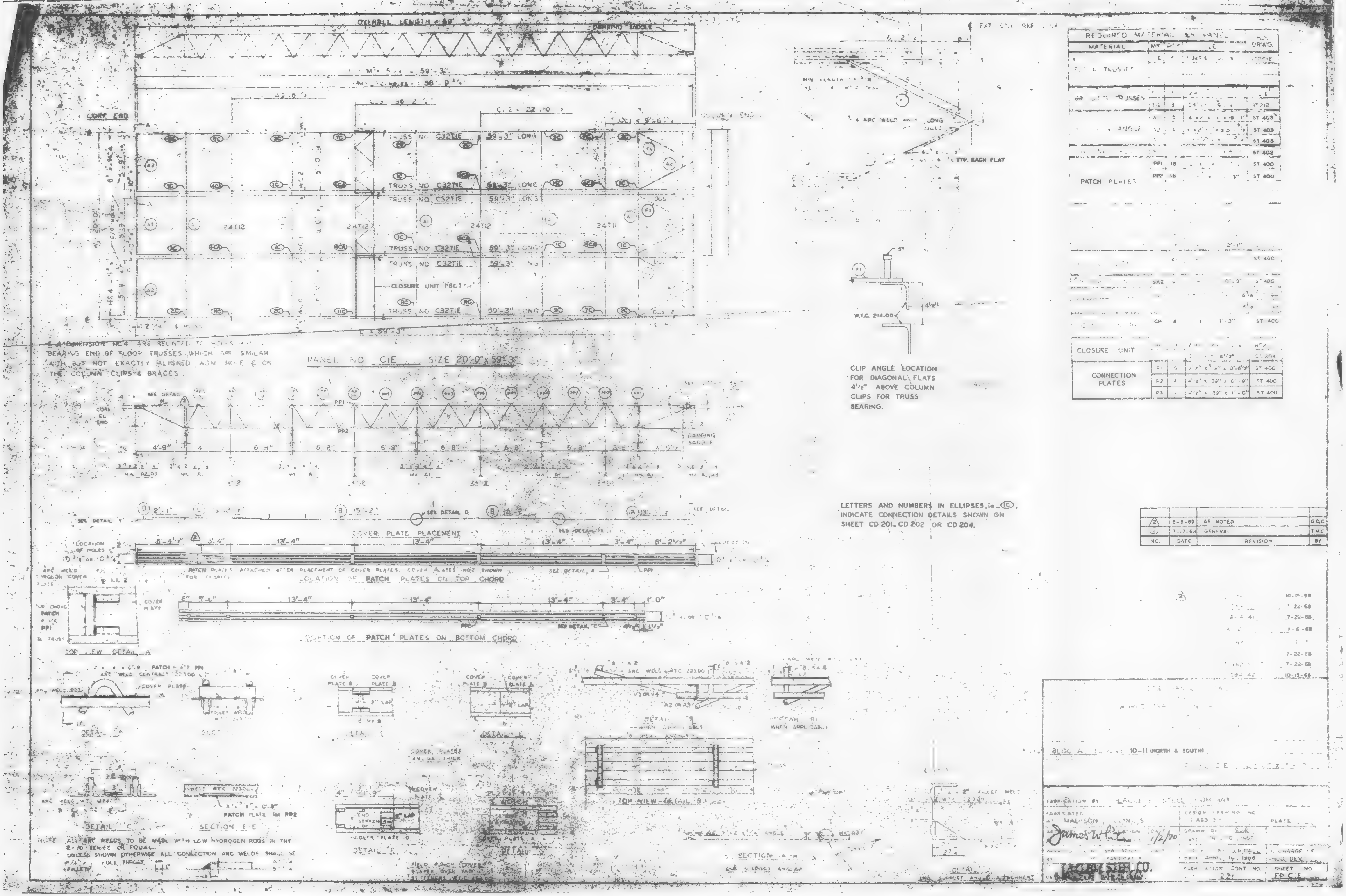
NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GDC

REF DRWG
7-AB4-33,1 10-15-68
7-AB4-15 & 6 7-22-68
7-AB4 39 & 41 7-22-68
SA 124 1-6-69
7-AB3 2 1-3-68
AB1 2 7-22-68
AB1 7 & 8 7-22-68
7-AB4 32 10-15-68

FOR PANEL [illegible]
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)
PANEL CID 20' x 59'-5"
BLDG. B FLOORS 81-82 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3 2
APPROVED FOR FABRICATION BY James White DATE 1/2/70
DRAWN BY DATE 10-24-68
APPROVED FOR FABRICATION BY DATE
CHECKED BY T.M. CHURA DATE 10-24-68
IN CHARGE OF PROD. DEV.
DETAILED BY G. WEBER
FABRICATION COST NO. W.T.C. 7221
SHEET NO.


OVERALL LENGTH = 59'-3"
BEARING SADDLE
CORE END
TRUSS NO. C32T1E 59'-3" LONG
TRUSS NO. C32T1E 59'-3" LONG
24T12
24T11
CLOSURE UNIT (8C1)
LONG
PANEL NO. C1E SIZE 20'-0" x 59'-3"
SEE DETAIL
PP1
PP2
CORE
END
4'-9"
6'-8"
BEARING SADDLE
SEE DETAIL D
COVER PLATE PLACEMENT
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL A
DETAIL C
SECTION E-E
3½" x ⅜" x 0'-3" PATCH PLATE PP2
DETAIL E
DETAIL F
SECTION A-A
TOP VIEW DETAIL B
TYP. EACH FLAT
W.T.C. 214.00
ARC WELD

E & DIMENSION HC4 ARE RELATED TO HOLES AT BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., ⓘⒸ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ³⁄₁₆" FULL THROAT FILLET.

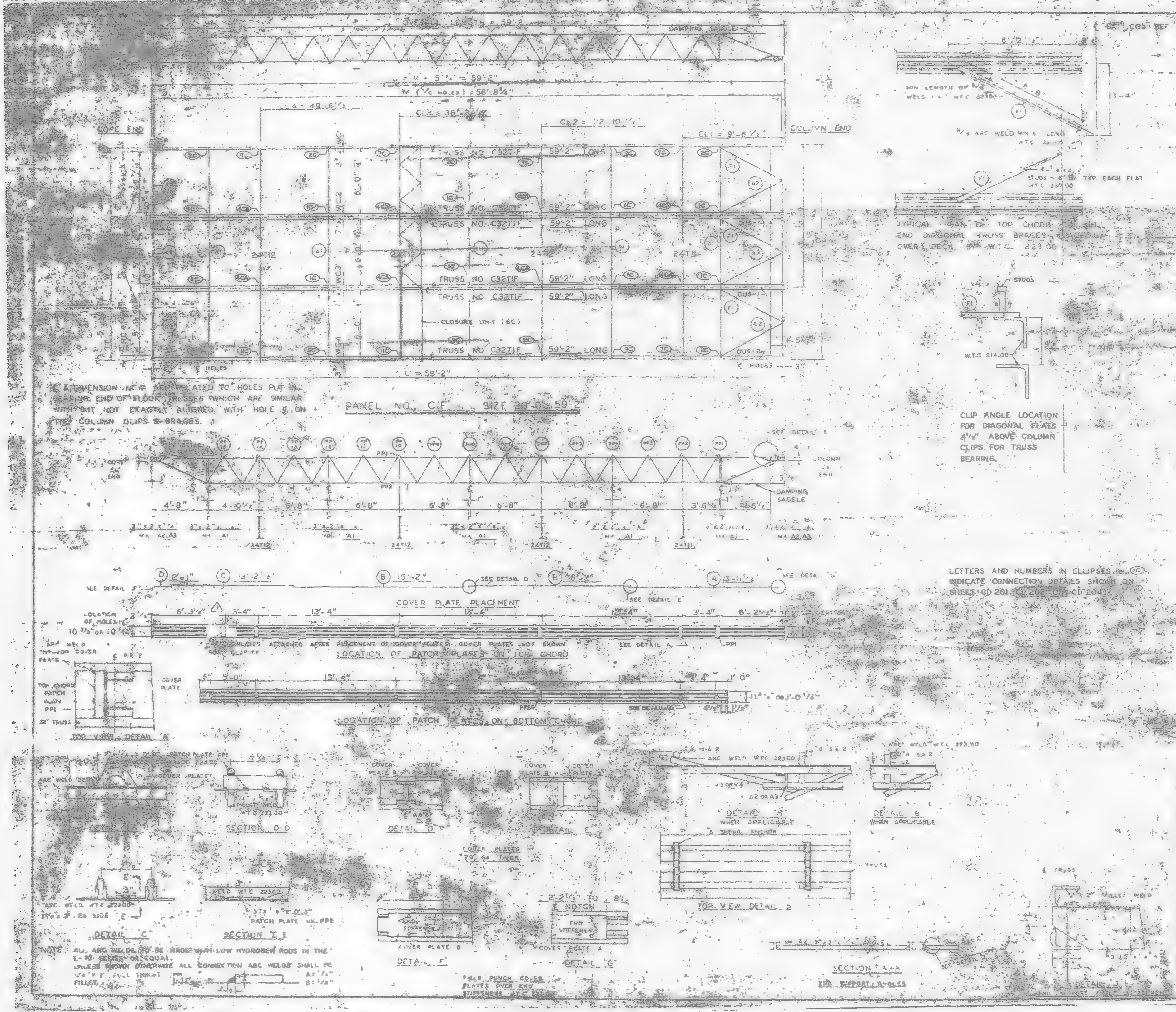
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	[illegible]	[illegible]	
TRUSSES	[illegible]	[illegible]	C32T1E [illegible]	ST 201E
TRUSSES	1/2	3	24T [illegible]	ST 212
ANGLE	A1	5	[illegible]	ST 403
	A2	[illegible]	[illegible]	ST 403
	[illegible]	[illegible]	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
[illegible]	[illegible]	[illegible]	2'-1"	ST 400
[illegible]	SA2	[illegible]	0'-9"	ST 400
[illegible]	CB1	4	1'-3"	ST 400
CLOSURE UNIT	[illegible]	[illegible]	6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	[illegible]	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.Q.C.
1	7-17-68	GENERAL	T.M.C.

10-15-68
7-22-68
7-22-68
1-6-69
7-22-68
7-22-68
10-15-68

BLDG. A [illegible] 10-11 (NORTH & SOUTH)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
James White 1/2/70
DRAWN BY [illegible]
DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
FABRICATION CONT. NO. 221
SHEET NO. EP C1E


OVERALL LENGTH = 59'-2"
DAMPING SADDLE
M = 5'-1/4" = 59'-2"
M (1/C HOLES) = 58'-8 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
CORE END
COLUMN END
TRUSS NO. C32T1F 59'-2" LONG
24T12
24T11
CLOSURE UNIT (8C)
DUS-1
DUS-2
℄ HOLES
L = 59'-2"
PANEL NO. C1F – SIZE 20'-0" x 59'-2"
SEE DETAIL B
COLUMN END
CORE END
DAMPING SADDLE
PP1
PP2
4'-8"
4'-10 1/2"
6'-8"
3'-6 1/4"
4'-6 1/2"
MK. A2, A3
MK. A1
SEE DETAIL D
SEE DETAIL E
SEE DETAIL G
COVER PLATE PLACEMENT
15'-2"
13'-4"
3'-4"
6'-3 1/2"
6'-2 1/2"
LOCATION OF HOLES
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW – DETAIL A
DETAIL
SECTION D-D
DETAIL D
DETAIL E
DETAIL F
DETAIL G
DETAIL "A" WHEN APPLICABLE
DETAIL B WHEN APPLICABLE
TOP VIEW – DETAIL 2
SECTION A-A
END SUPPORT ANGLES
DETAIL C
SECTION E-E
PATCH PLATE MK. PP2
COVER PLATE
END STIFFENER
E NOTCH
COVER PLATES 20 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
ARC WELD W.T.C. 223.00
SHEAR ANCHOR
TRUSS
BAT. COL. REF. LINE
6'-2"
6'-8"
3'-4"
MIN. LENGTH OF 3/16 WELD 1 1/4" W.T.C. 221.00
3/16 ARC WELD MIN. 5" LONG W.T.C. 22?.00
STUDS – 6" SL. TYP. EACH FLAT W.T.C. 220.00
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK W.T.C. 223.00
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

℄ & DIMENSION "C4" ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, CD 203, CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 8" FULL THROAT FILLET. A = 1/8" B = 1/8"

REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK.	PCS.	SIZE	DWG.
FLOOR TRUSSES	T1F	6	C32T1F 59'-2"	ST 3?F
BRIDGING TRUSSES	T11	1	24T11 – ?' ?"	ST 21?
	T12	3	24T12 – 19'-1"	ST 2??
[illegible] ANGLE	A1	5	3" x 2" x 1/4" x 18'-11"	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F	6	1 1/2" x [illegible]	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-3"	ST 400
	PP2	18	3" x 5/8" x 0'-3"	ST 400
COVER PLATES	[illegible]	[illegible]	9" x .0135" x 15'-11 1/8"	ST 30?
	B	6	9" x .0135" x 15'-2"	ST 30?
	C	3	9" x .0135" x 13'-2"	ST 30?
	D	3	9" x .0135" x 2'-1"	ST 30?
ANGLE CLIPS	C1	27	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	[illegible]
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	8C	3	2 1/2" x 1 1/2" x 1 1/4" x [illegible]	[illegible]
			.230 x 0'-6 1/2"	CD 27?
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GOC

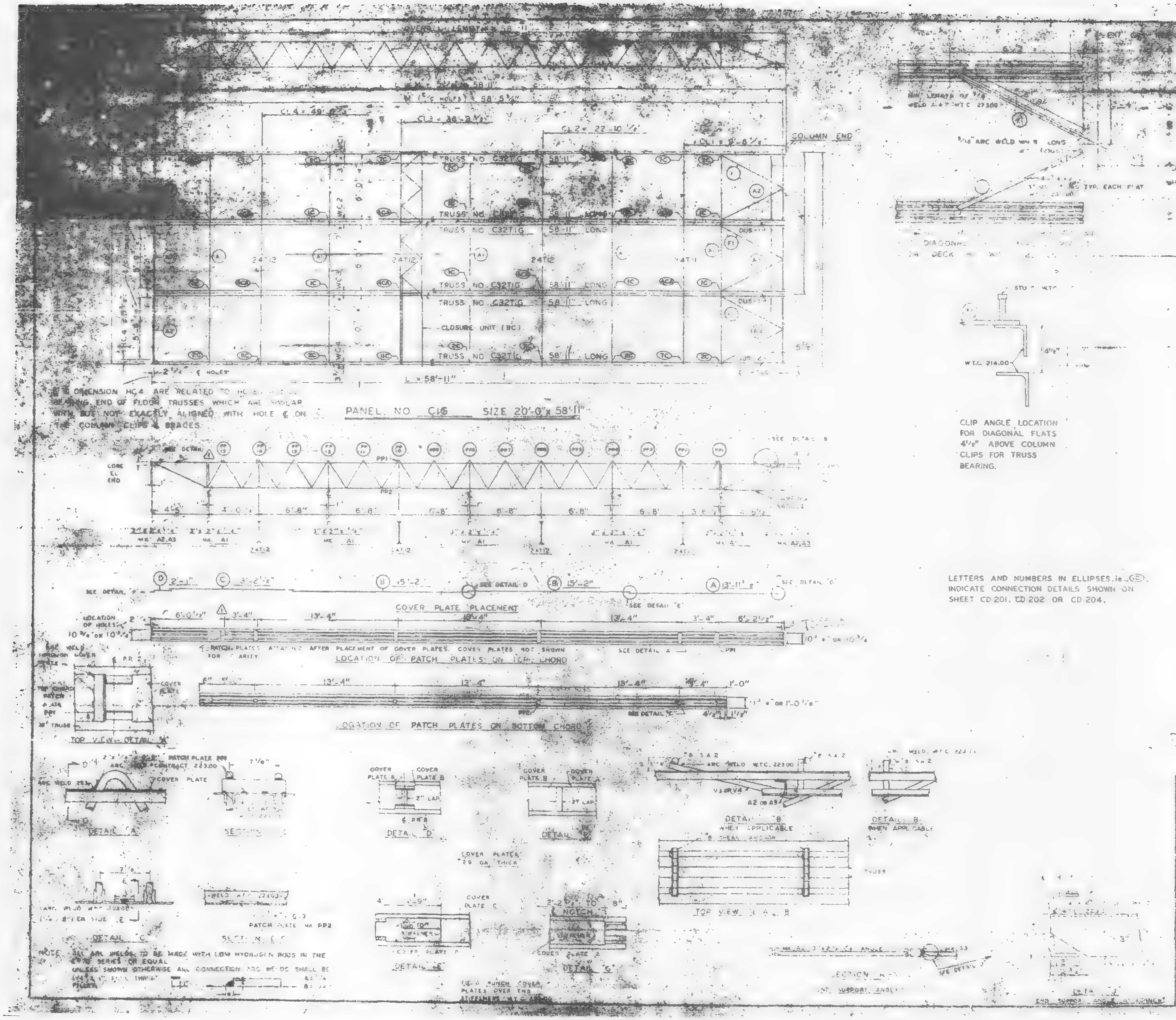
1 REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 18	7-2? 68
7-AB4-39 & 41	7-22 68
SA-124	1-6-69
7-AB3-?	?-?-68
7-AB1-2	7-22 68
7-AB2-6 & 7	7-22 68
7-AB4-42	10 15 68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48 (N & S), 70-71 (N)
PANEL C1F – 20'-0" x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-7
APPROVED FOR FABRICATION James White P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE 10 24 68
APPROVED BY [illegible] FABRICATOR DATE [illegible]
CHECKED BY T.M. CHURASH CHAS. [illegible] DATE 10 24 68
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221


L = 58'-11"
58'-5 3/4"
CL4 = 49'-6"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIG 58'-11" LONG
TRUSS NO C32TIG 58'-11" LONG
CLOSURE UNIT (BC)
TRUSS NO C32TIG 58'-11" LONG
24T12
24T12
24T12
24T11
2 3/4" ℄ HOLES
CORE EL END
PP1
PP2
4'-5"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
COVER PLATE PLACEMENT
2'-1"
3'-2 1/2"
15'-2"
15'-2"
13'-11"
6'-0 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "B"
DETAIL "A"
DETAIL "C"
DETAIL "D"
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION E-E
PATCH PLATE MK PP2
COVER PLATES 28 GA THICK
DETAIL "F"
DETAIL "G"
NOTCH
DIAGONAL
5/16 ARC WELD
TYP. EACH FLAT
W.T.C. 214.00
4 1/2"
SEE DETAIL

DIMENSION HC4 ARE RELATED TO [illegible] BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. C16 SIZE 20'-0" x 58'-11"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (2C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLETS

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	TIG	6	C32TIG 58'-11"	[illegible]
BRIDGING TRUSSES	T1	1	24T11 - 19'-8"	[illegible]
	T2	3	24T12 - 19'-10"	BT212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 10'-11"	ST 400
	A2	4	3" x 2" x 1/4" x 5'-11 1/4"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	[illegible]	[illegible] x 8'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0'-8"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] x 15'-2"	ST 303
	C	[illegible]	[illegible] x 3'-2"	ST 303
	D	3	[illegible] x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	21	[illegible] x 0'-6"	ST 400
[illegible]	SA2	8	[illegible] x 0'-0"	ST 400
[illegible] SA[illegible]	[illegible]	[illegible]	[illegible] 3/8" x [illegible]	ST 290
	[illegible] 2	[illegible]	[illegible] 3/8" x [illegible]	ST 290
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2 x [illegible]	BT212
			[illegible] x [illegible]-6 1/2"	CD204
CONNECTION PLATES	P1	[illegible]	3" x [illegible] x 0'-8 1/2"	ST 400
	P2	4	4" x 2" x .39" x 0'-9"	ST 400
	P3	[illegible]	4" x 2" x .39" x 1'-0"	ST 400

NO	DATE		BY
1	6-6-69	AS NOTED	G[illegible]

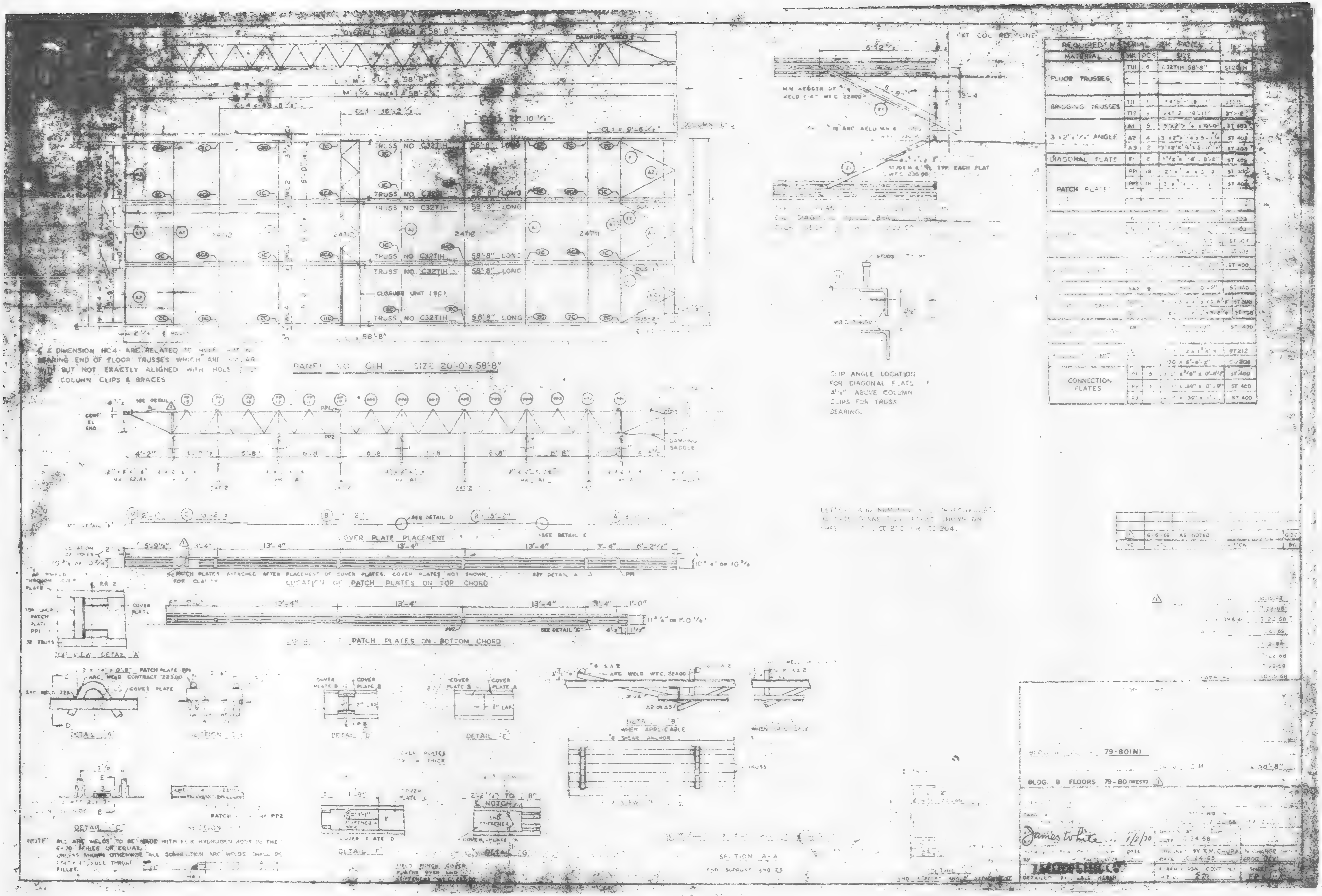
1

[illegible] A6 [illegible]	10-15-68
[illegible] A4 [illegible]	7-22-68
A [illegible] 39 & 41	7-22-68
SA [illegible] 12	[illegible]-6-69
[illegible] A42 [illegible]	1-3-68
[illegible]	7-22-68
[illegible]	7-[illegible]-68
A84 [illegible]	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER [illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (N&S)
[illegible] 58'-11"
BLDG. B FLOORS 39-40 (EAST & WEST) 1

FABRICATED BY [illegible]
FABRICATED [illegible] MADISON [illegible]
James White 1/2/70
24-68
BY T.M. [illegible]URA
[illegible]-24-68
22
SHEET NO. FP C16



OVERALL LENGTH 58'-8"
DAMPING SADDLE
TRUSS NO C32TIH 58'-8" LONG
CLOSURE UNIT (BC)
COLUMN
24T12
24T11
24T1C
58'-8"
PANEL NO C1H SIZE 20'-0" x 58'-8"
SEE DETAIL
4'-2"
6'-8"
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL E
5'-9½"
3'-4"
13'-4"
6'-2½"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
PATCH PLATES ON BOTTOM CHORD
1'-0"
DETAIL A
ARC WELD CONTRACT 22300
COVER PLATE
COVER PLATE B
COVER PLATE A
DETAIL D
DETAIL E
ARC WELD WTC 22300
A2 OR A3
DETAIL B
WHEN APPLICABLE
SHEAR ANCHOR
DETAIL C
DETAIL F
DETAIL G
COVER PLATE D
NOTCH
END STIFFENER
SECTION A-A
END SUPPORT AND ES
MIN LENGTH OF WELD WTC 22300
STUDS
CLIP ANGLE LOCATION FOR DIAGONAL PLATE 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
6-6-69 AS NOTED
10-15-68
7-22-68
10-5-68

& DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE ... BUT NOT EXACTLY ALIGNED WITH HOLES ... COLUMN CLIPS & BRACES

NOTE: ALL ARC WELDS TO BE MADE WITH ... HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ... FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF
FLOOR TRUSSES	TIH	5	C32TIH 58'-8"	ST20H
BRIDGING TRUSSES	T11	1	24T11 [illegible]	[illegible]
	T12	3	24T 2 9'-11"	ST212
3 x 2" x ¼" ANGLE	A1	9	3"x2"x¼ x 19'-0"	ST 403
	A2	4	3 x 2" x ¼ x 5-[illegible]	ST 403
	A3	2	3" x 2" x ¼ x 5-[illegible]	ST 403
DIAGONAL PLATES	F1	6	1½ x ¼ x 8'-6"	ST 403
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
[illegible]	SA2	9	[illegible] 0'-2"	ST 400
[illegible]	CB	[illegible]	[illegible]	ST 400
[illegible] UNIT	[illegible]	[illegible]	2 x [illegible]	ST212
	[illegible]	[illegible]	30 x 5'-8½"	[illegible]
CONNECTION PLATES	P1	5	[illegible] x ⅜" x 0'-6½"	ST 400
	P2	5	[illegible] x .39" x 0'-9"	ST 400
	P3	[illegible]	[illegible] x .39" x [illegible]	ST 400

79-80(N)

58'-8"

BLDG. B FLOORS 79-80 (WEST)

James White 1/2/70

DATE 10-24-68

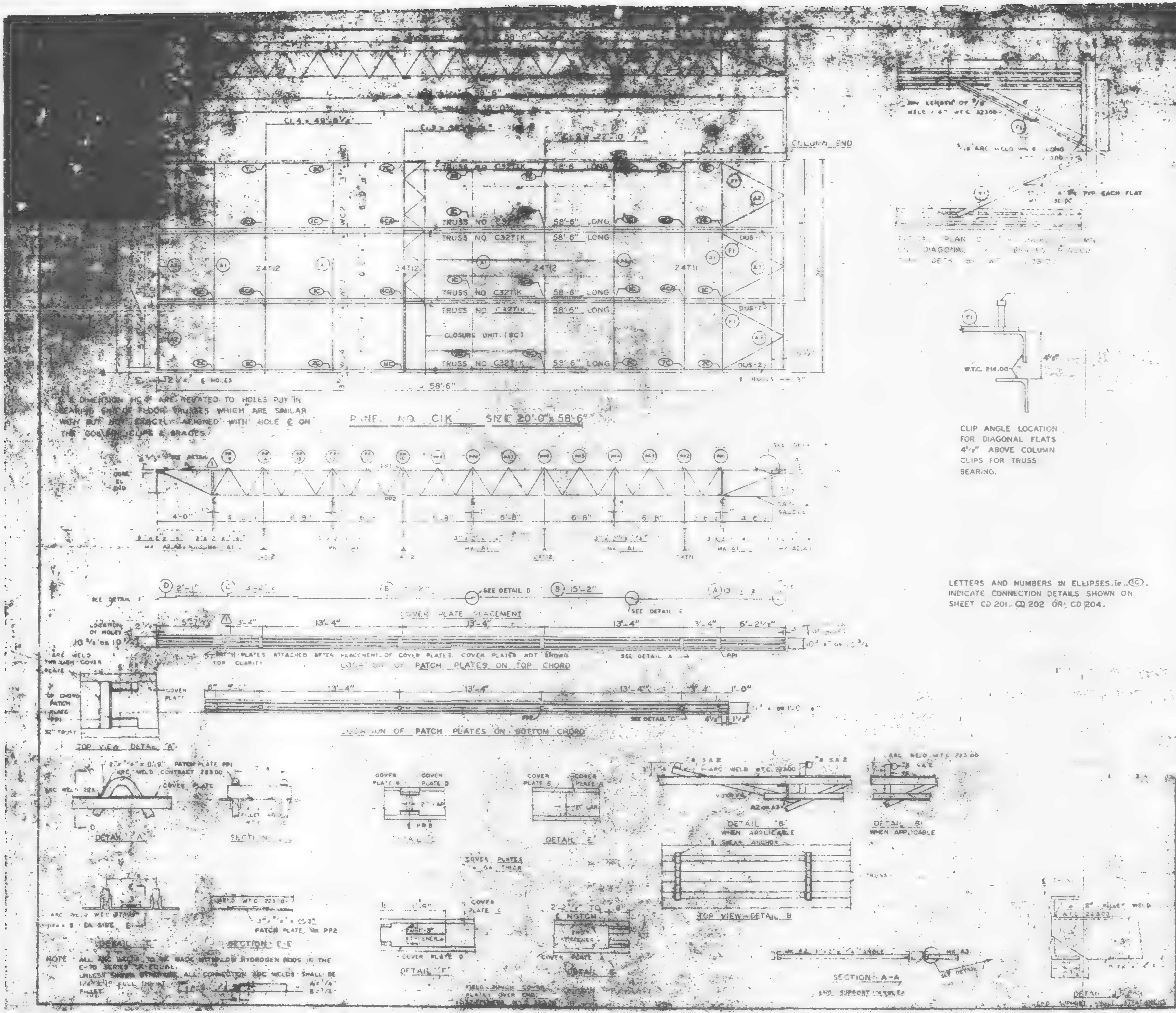
CHECKED BY T.M. CHUPA

DATE 10-24-68

DETAILED BY A.E. ...

CONT. NO 221

FP-C1H


58'-6"
CL 4 = 49'-8 1/2"
COLUMN END
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T1K 58'-6" LONG
CLOSURE UNIT (BC)
24T12
24T12
24T12
24T11
DUS-1
DUS-2
12 1/4" ℄ HOLES
58'-6"
℄ DIMENSION HC 4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. C1K SIZE 20'-0" x 58'-6"
SEE DETAIL
CORE EL END
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
DAMPING SADDLE
MK A1
MK A1
MK A1
MK A2, A3
24T12
24T11
2'-1"
SEE DETAIL D
15'-2"
SEE DETAIL E
COVER PLATE PLACEMENT
5'-7 1/4"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF HOLES
ARC WELD THROUGH COVER PLATE
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
TOP CHORD
PATCH PLATE
COVER PLATE
32" TRUSS
6"
13'-4"
13'-4"
13'-4"
1'-0"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL "A"
SECTION
COVER PLATE B
COVER PLATE A
DETAIL "C"
COVER PLATE B
COVER PLATE
DETAIL "E"
SA2
ARC WELD W.T.C. 223.00
A2 OR A3
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TRUSS
TOP VIEW - DETAIL B
COVER PLATES
COVER PLATE C
NOTCH
STIFFENER
COVER PLATE D
DETAIL "F"
COVER PLATE A
FIELD - PUNCH COVER PLATES OVER END
WELD W.T.C. 223.00
ARC WELD W.T.C. 223.00
3 EA. SIDE
PATCH PLATE, MK PP2
DETAIL
SECTION - E-E
MK A2 3"x2"x1/4" ANGLE
MK A3
SEE DETAIL
SECTION - A-A
END SUPPORT ANGLES
2" FILLET WELD
W.T.C. 223.00
DETAIL
3/16 ARC WELD
TYPICAL PLAN OF DIAGONAL FLATS
W.T.C. 214.00
4 1/2"
F1

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE, ALL CONNECTION ARC WELDS SHALL BE 1/4" END FULL THROAT FILLET. A = 1/4" B = 1/4"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

[illegible]	[illegible]	[illegible]	SIZE	REF DWG
FLOOR TRUSSES	[illegible]	6	C32T1K 58'-6"	ST[illegible]
BRIDGING TRUSSES	T11	[illegible]	24T11-19'-10"	BT211
	T12	3	24T12-19'-11"	BT212
3"x2"x1/4" ANGLE	A1	[illegible]	3"x2"x1/4"x[illegible]	ST 403
	A2	4	3"x2"x1/4"x5'-11 5/16"	ST 403
	A3	3	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F	6	[illegible]	ST 40[illegible]
PATCH PLATES	PP1	18	2"x1/4"x0'-9"	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	[illegible] .035 x [illegible]	ST 303
	B	6	[illegible] .035 x 15'-2"	ST 303
	C	3	[illegible] .035 x 13'-2 1/2"	ST 303
	[illegible]	3	[illegible] .035 x 2'-1"	ST 303
ANGLE CLIPS	C	21	[illegible]	ST 400
SHEAR ANCHOR	SA2	9	REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	[illegible]	[illegible] x 5'-6 7/8"	ST 400
	DUS-2	[illegible]	[illegible] x 3'-6 7/8"	ST 2[illegible]
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	BT212
			[illegible] x 5'-5 1/2"	CU 206
CONNECTION PLATES	P1	5	5 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3		4 1/2" x .39" x 1'-0"	ST 400

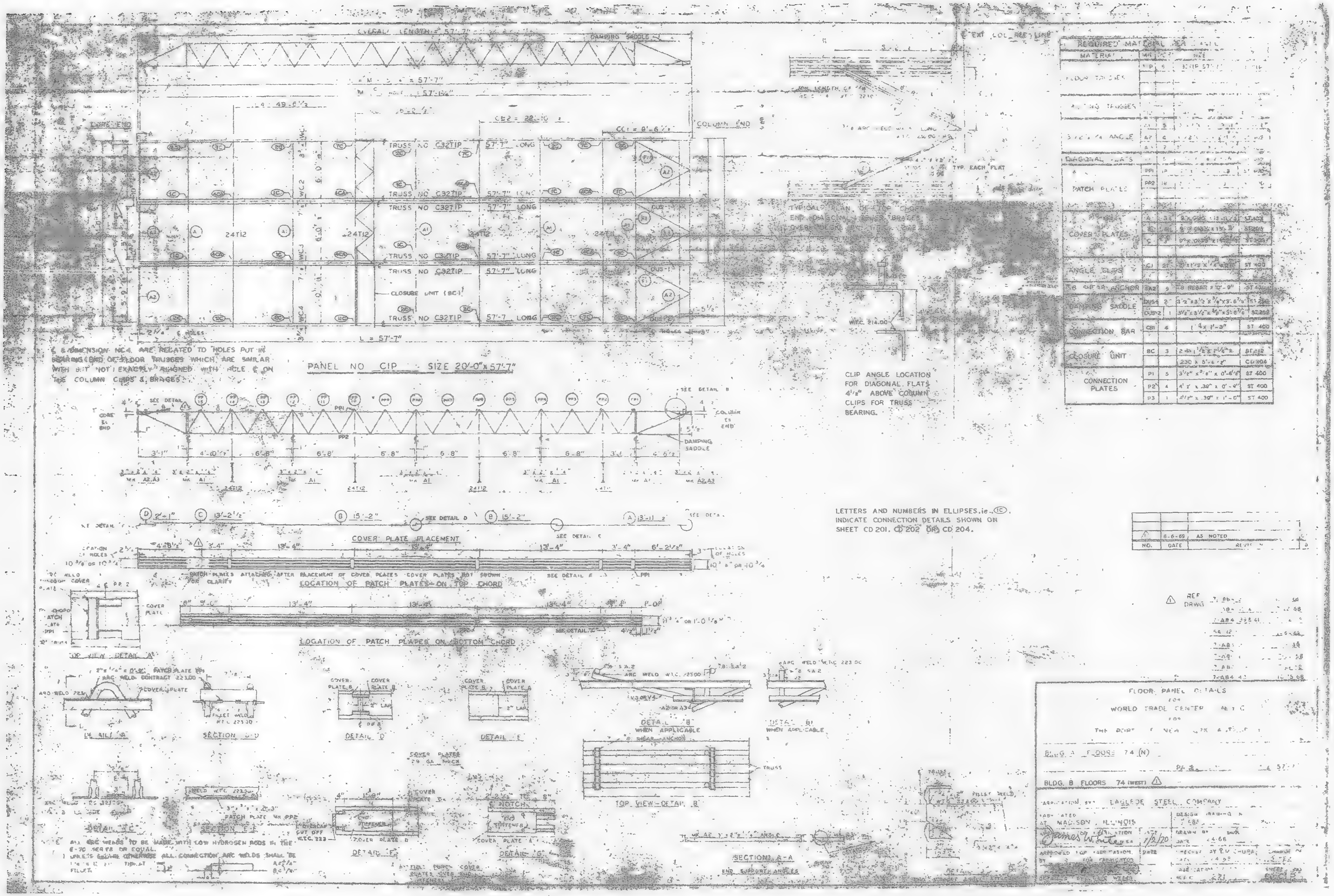
NO	DATE	REVISION	BY
⚠1	6-6-69	AS NOTED	GDC

⚠1 REF DRAG	
7-AB4-2	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-39 & 41	7-22-68
SA-226	1-5-69
7-AB3	1-3-69
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45(S), 46(N & S)
PANEL C1K 20'-0" x 58'-6"
BLDG. B FLOORS 45(EAST) 46(EAST & WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN OF WIND [illegible]
PLATE [illegible]
APPROVED FOR FABRICATION James White DATE 1/9/70
DRAWN BY [illegible] DATE 6-24-68
APPROVED FOR FABRICATION DATE
CHECKED BY Y. M. CHURA DATE 6-24-68
IN CHARGE [illegible]
LACLEDE STEEL CO.
FABRICATION CONT. NO. 221
SHEET C1K


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
L = 57'-7"
CE2 = 22'-10
CC1 = 8'-6½
COLUMN END
CORE END
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
TRUSS NO C32T1P 57'-7" LONG
CLOSURE UNIT (BC-1)
24T12
DUS-1
DUS-2
EXT. COL. REF. LINE
TYP. EACH FLAT
TYPICAL PLAN OF TOP CHORD END FOR DIAGONAL BRACES
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4⅛" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL B
DAMPING SADDLE
COLUMN END
3'-1"
4'-10½"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
4'-6½"
24T12
A1
A2, A3
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2½"
B 15'-2"
B 15'-2"
A 13'-11
SEE DETAIL D
SEE DETAIL E
13'-4"
3'-4"
6'-2½"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
TOP VIEW-DETAIL B
SHEAR ANCHOR
TRUSS
COVER PLATES 29 GA. MECH
DETAIL C
SECTION E-E
PATCH PLATE WH PP2
DETAIL F
DETAIL G
E NOTCH
COVER PLATE A
COVER PLATE D
SECTION A-A
END SUPPORT ANGLES
ARC WELD W.T.C. 223.00
FILLET WELD

PANEL NO C1P SIZE 20'-0"x57'-7"

℄ & DIMENSION NC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FILLET

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	5	32T1P 57'-7"	[illegible]
[illegible] TRUSSES				
3½×2½×¼ ANGLE	A1	3	[illegible]	[illegible]
	A2	6	[illegible]	[illegible]
	A3	2	[illegible]	[illegible]
DIAGONAL FLATS	[illegible]	6	[illegible]	[illegible]
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	[illegible]
COVER PLATES	A	3	9"×.0135×13'-11"	ST 303
	B	6	9"×.0135×15'-2"	ST 303
	C	3	9"×.0135×13'-2½"	ST 303
ANGLE CLIPS	C1	2	[illegible]	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR × 0'-9"	ST 430
DAMPING SADDLE	DUS-1	2	3½"×3½"×⅜"×3'-6⅞"	ST 298
	DUS-2	1	3½"×3½"×⅜"×3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1"⌀ × 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ⌀ 1½" × 1½" ×	BT 212
			230 × 8'-6⅛"	CD 204
CONNECTION PLATES	P1	5	3½" × ⅜" × 0'-6⅛"	ST 400
	P2	4	4½" × .39" × 0'-9"	ST 400
	P3	1	4½" × .39" × 1'-0"	ST 400

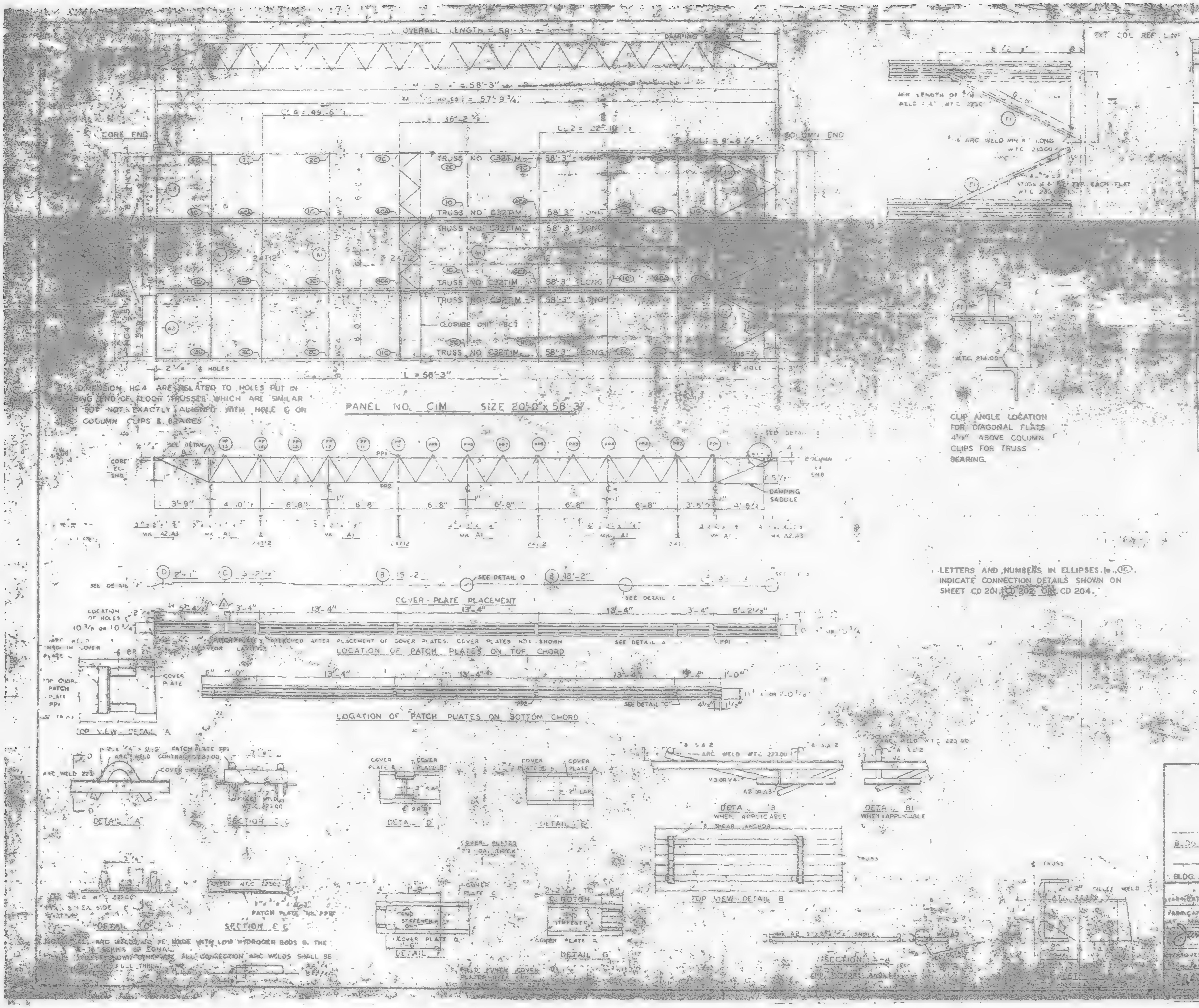
NO.	DATE	REVISION
1	6-6-69	AS NOTED

REF DRAWG
7-AB4 [illegible]
7-AB4 39&41
SA 12
7-AB
7-AB
7-AB
7-AB4 43 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER [illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 74 (N)
BLDG. B FLOORS 74 (WEST) ⚠1

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION James White DATE 1/2/70
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
DESIGN DRAWING NO. 7-AB4
DRAWN BY [illegible] DATE 4-68
CHECKED BY T.V. CHUPA DATE 4-68
W.T.C. 221


OVERALL LENGTH = 58'-3"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32TIM 58'-3" LONG
CLOSURE UNIT BC3
L = 58'-3"
PANEL NO. CIM SIZE 20'-0" x 58'-3"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION C-C
DETAIL D
DETAIL E
DETAIL B
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION E-E
DETAIL G
SECTION A-A

DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (e.g. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS & THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT

REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK	PC	SIZE	[illegible]
FLOOR TRUSSES	TIM	6	C32TIM 58'3"	[illegible]
BRIDGING TRUSSES	[illegible]	1	[illegible]	[illegible]
	[illegible]	3	4T 2 - 18'-11"	ST 212
3½x2½x¼ ANGLE	A1	6	[illegible]	ST 400
	A2	4	[illegible]	[illegible]
	A3	2	[illegible]	ST 400
DIAGONAL FLATS	F	[illegible]	[illegible]	ST 102
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	B	6	9" x 0.135" x 15'-8"	[illegible]
	C	3	9" x 0.135" x 3'-2½"	ST 102
	D	3	9" x 0.135" x 2'-1½"	[illegible]
CLIPS	C1	[illegible]	[illegible]	[illegible]
SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DS1	2	[illegible]	[illegible]
	DS2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	ST 212
			230 x 5'-8½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-8½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3		4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	
1	6-6-69	AS NOTED	[illegible]

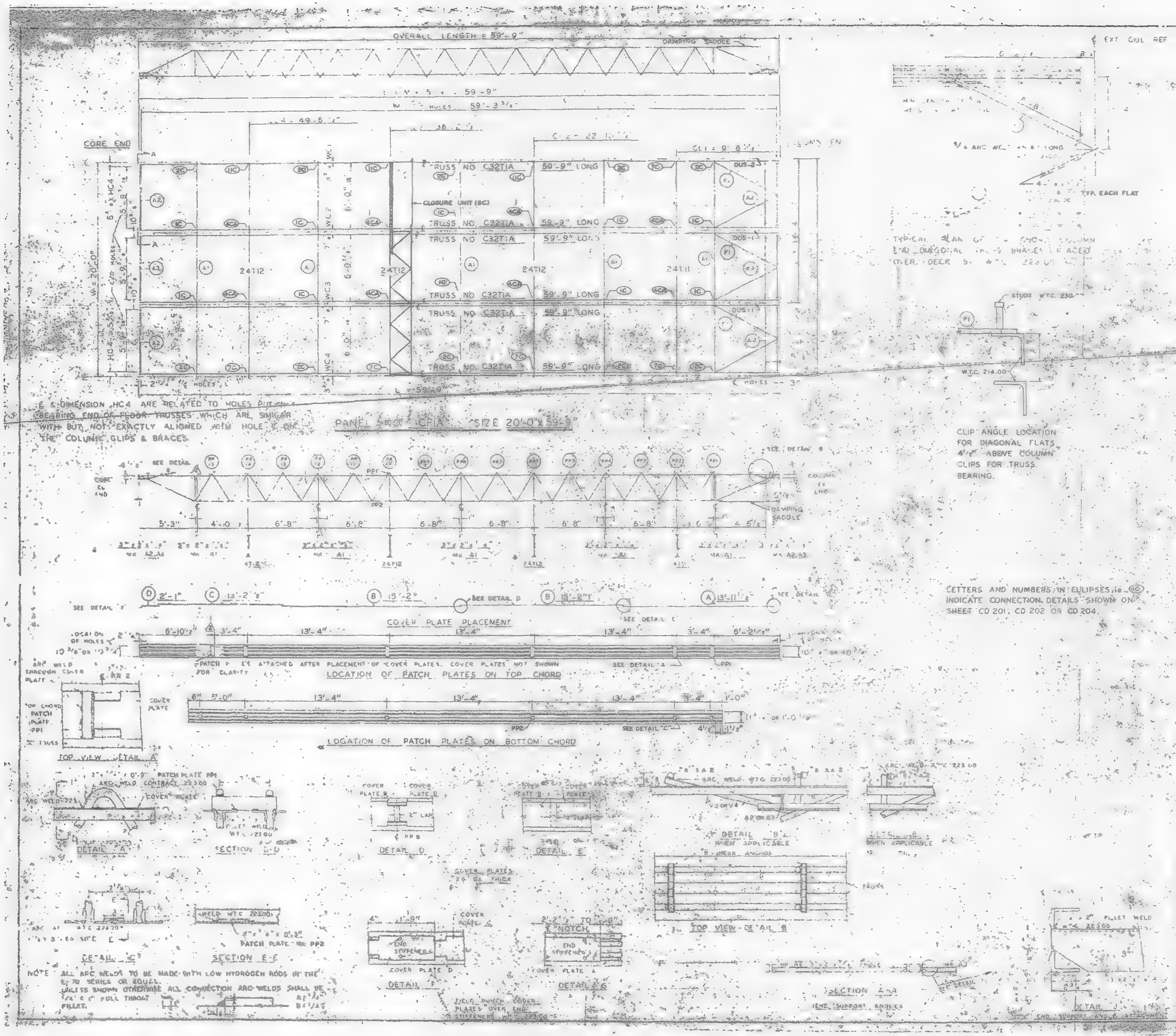
REF DRWG

[illegible]	10-6-68
7-AB4-15 & 16	7-22-68
7-AB3-39 & 41	[illegible]
SA [illegible]	[illegible]-6-69
[illegible]	[illegible]
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 (N)
PANEL CIM x 58'-3"
BLDG. B FLOORS 72-73 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
James White
DATE 7/2/70
DRAWN BY
DATE 10-24-68
APPROVED FOR FABRICATION FOR FABRICATOR
CHECKED BY J. M. CHURA
DATE [illegible]-24-68


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
CORE END
TRUSS NO C32T1A 59'-9" LONG
CLOSURE UNIT (BC)
24T12
WC1
WC2
WC3
WC4
HC4
DUS-2
DUS-1
E & DIMENSION HC4 ARE RELATED TO HOLES BUT BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE E ON THE COLUMN CLIPS & BRACES.
PANEL NO. CR1A SIZE 20'-0" x 59'-9"
5'-3"
4'-10
6'-8"
COVER PLATE PLACEMENT
13'-4"
3'-4"
6'-10 1/2"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B
TOP VIEW DETAIL B
DETAIL C
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
TYPICAL PLAN OF ... END DIAGONAL ... BRACES PLACED OVER DECK
STUDS W.T.C. 230
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES (i.e. ...) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSS	TA	6	C32T1A - 59'-9	[illegible]
BRIDGING TRUSSES	[illegible]		24T[illegible]	
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A1	3	3" x 2" x 1/4" x 18'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 3/8"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	3	[illegible] x 6'-6"	ST 402
PATCH PLATES	PP1	18	2 x 4 x 0-9	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	9" x .035 x 3'-11 1/2"	ST303
	B	6	9" x .0135" x 5'-2"	ST303
	C	3	9" x .0135" x 3'-2 1/2"	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2 x 1 1/4" x 230 x 6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

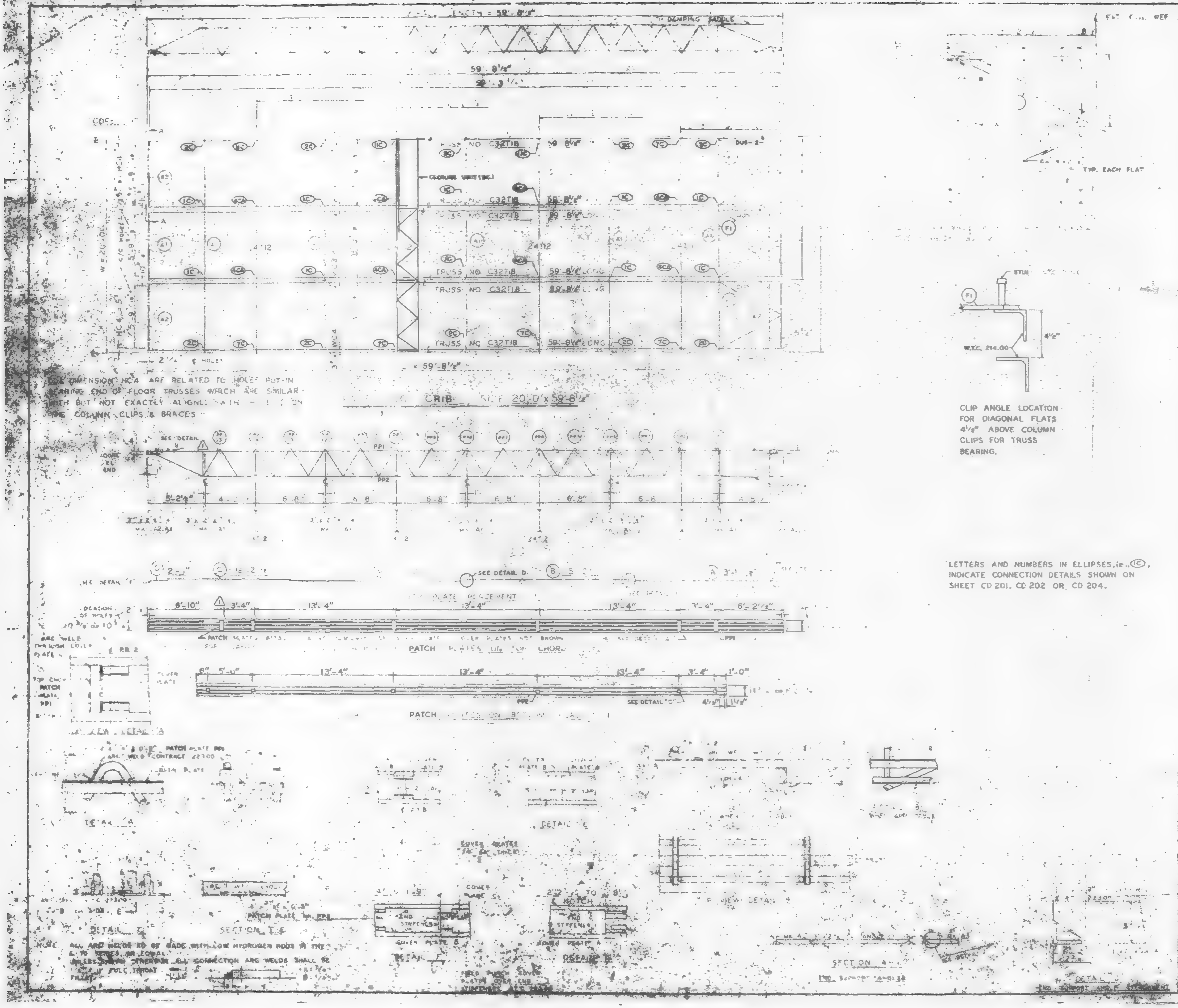
2 REF. DWG.

7-AB[illegible]	10-15-68
AB4 [illegible]	7-22-68
AB4 41	7-22-68
[illegible] 24	1-6-69
AB3 2	[illegible]-3-68
AB[illegible] 2	7-22-68
7-AB4 6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible] 24, 26-38 (NORTH & SOUTH), 49-58, 60-66, 68, 69 (NORTH) PANEL CR1A - 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-[illegible] 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8 [illegible] 4-1-68 PLATE
APPROVED FOR FABRICATION [illegible] James White
DATE 1/2/70
DRAWN BY [illegible]
DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY J.R. PAUL
DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CR1A


59'-8 1/2"
59'-9 1/4"
DAMPING SADDLE
TRUSS NO C32T1B
59'-8 1/2" LONG
CLOSURE UNIT (BC)
24T12
WC4
HC4
2 1/4" ℄ HOLES
CRIB SIZE 20'-0" x 59'-8 1/2"
SEE DETAIL B
CORE ℄ END
PP1
PP2
5'-2 1/2"
6'-8"
SEE DETAIL D
PATCH PLATE PLACEMENT
6'-10"
3'-4"
13'-4"
6'-2 1/2"
PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
DETAIL A
DETAIL E
DETAIL C
SECTION E-E
PATCH PLATE PP2
COVER PLATES
END STIFFENERS
NOTCH
DETAIL D
SECTION A-A
END SUPPORT ANGLES
STUD
W.T.C. 214.00
4 1/2"
TYP. EACH FLAT

THE DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL				
[illegible]		8	[illegible] - 59'-8 1/2"	ST 201B
			24T12	BT 212
[illegible] ANGLE	A1	5	[illegible]	ST 403
	A2	4	[illegible] x 5'-[illegible]	ST 403
			[illegible]	ST 403
[illegible]			[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
[illegible]	A	3	[illegible] x 3'-[illegible] 1/2	ST 303
	H	6	[illegible] x 5'-2	ST 303
		3	[illegible] 2'-2	ST 303
		3	[illegible] 2'-1"	ST 303
ANGLE [illegible] S		21	[illegible] 4 x 0'-6	ST 400
[illegible]	SA2	12	[illegible] BAR x 0'-9"	ST 400
DAMPING SADDLE	[illegible]	2	[illegible] x 3/8" x 3-6 7/8"	ST 298
	DS-2	1	[illegible] x 3/8" x 3-8 7/8"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1/2" x 1 1/4" x	BT 212
			232 x [illegible]-6 1/2"	CD 2[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	G.D.C.
⚠1	5-9-69	AS NOTED	G.D.C.

⚠1

[illegible]	10-15-68
[illegible] 15,16	7-22-68
A[illegible] 41	7-22-68
A	1-6-69
[illegible]-A8[illegible]	[illegible]-69
[illegible] A8[illegible] 2	7-22-68
A82 6 & 7	7-22-68
7-A84 4	10-15-68

83-91 & 93-106 (N)

PANEL CRIB [illegible] x 59'-8 1/2"

BLDG. B FLOORS 83-91 & 93-106 (WEST) ⚠1

FABRICATED BY [illegible] STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible] A83 B

APPROVED FOR FABRICATION James White DATE 1/2/70

DRAWN BY [illegible] DATE OCT 23, 1968

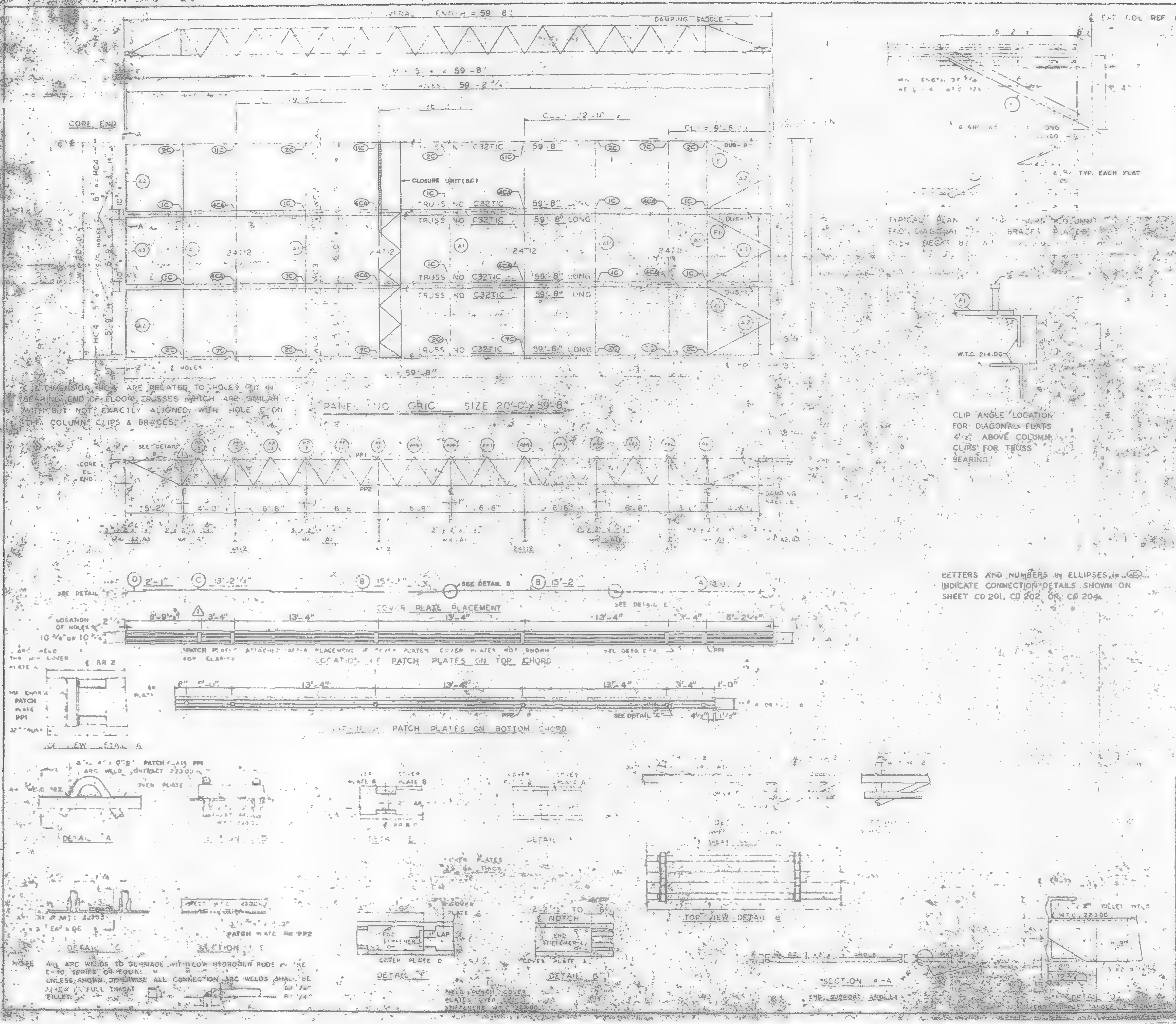
APPROVED FOR FABRICATION BY [illegible] DATE

CHECKED BY T.M.CHU[illegible] DATE OCT 23, 1968

DETAILED BY [illegible]

FABRICATION CONT. NO. W.T.C. [illegible]

SHEET FP [illegible]


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
59'-8"
59'-2 3/4"
CORE END
CLOSURE UNIT (BC)
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
TRUSS NO C32T1C 59'-8" LONG
24T12
24T12
24T11
2C
1C
4CA
7C
11C
A1
A2
F1
DUS-1
DUS-2
HC4
€ HOLES
59'-8"
PANEL NO GRID SIZE 20'-0" x 59'-8"
SEE DETAIL B
CORE END
PP1
PP2
5'-2"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
DAMPING SADDLE
2'-1"
13'-2 1/2"
SEE DETAIL D
15'-2"
15'-2"
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 1/4"
8'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
8'-2 1/2"
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD
VIEW A
PATCH PLATE PP1
DETAIL A
DETAIL B
DETAIL E
DETAIL C
SECTION
PATCH PLATE MK PP2
DETAIL F
DETAIL G
TOP VIEW DETAIL H
SECTION A-A
END SUPPORT ANGLES
W.T.C. 214.00
4 1/2"
TYP. EACH FLAT

Є & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE Є ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE MAX. FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	C	[illegible]	C32T1C - 59'-8"	ST 201C
BRIDGING TRUSSES	[illegible]	[illegible]	24T12 - 9'	[illegible]
	[illegible]	3	24T12 - 19'	BT 212
3 x 2 x 1/4 ANGLE	A1	5	3 x 2 x 1/4 x 19'-11"	ST 403
	A2	4	3 x 2 x 1/4 x 5-11 9/16	ST 403
	[illegible]	2	[illegible]	ST 403
DIAGONAL FLATS	F1	5	2 x [illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	9" x 0.35 x 13'-11 1/2"	ST 303
	B	6	9" x .485 x 5'-2"	ST 303
	C	3	9" x 0.35 x 13'-2 1/2"	ST 303
	D	3	9" x 0.35" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 4 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	BT 212 CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.C.

⚠1 REF. DRWG.	
7 AB4-3	10-15-68
7-AB4-15, 16 & 39	7-22-68
7 AB4-41	7-22-68
3A-12.4	1-6-69
7 AB3-2	1-3-68
7 AB1-2	7-22-68
7 AB2-6 & 7	7-22-68
7 AB4-42	10-15-68

THE [illegible] NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91 & 93-106 (S)

PANEL GRID 20'-0" x 59'-8"

BLDG. B FLOORS 49-58, 60-74, 79-91 & 93-106 (EAST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-8

PLATE

APPROVED FOR FABRICATION BY James White P.N.Y.A. DATE 1/2/70

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE

DRAWN BY [illegible] DATE OCT 23, 1968

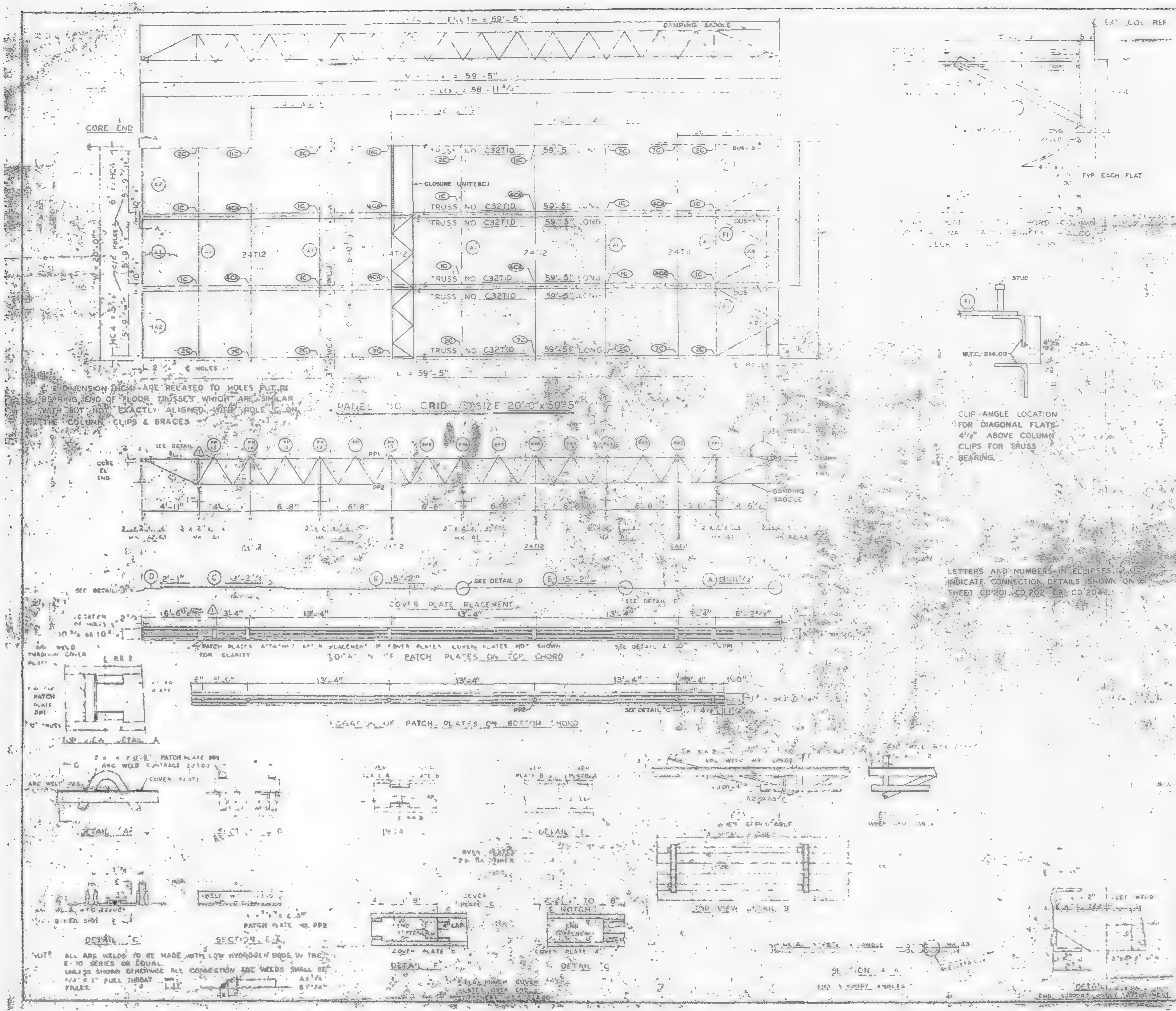
CHECKED BY T.M.CHORA DATE OCT 23, 1968

IN CHARGE OF PRODUCTION

DETAILED BY [illegible] C. WEBER

FABRICATION CONT. NO. W.T.C. 22

SHEET [illegible]


DAMPING SADDLE
L = 59'-5"
58'-11 3/4"
CORE END
TRUSS NO C32T1D 59'-5" LONG
CLOSURE UNIT (BC)
24T12
L = 59'-5"
C & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES
PANEL NO CRID SIZE 20'-0"x59'-5"
CORE EL END
PP1
PP2
DAMPING SADDLE
4'-11"
6'-8"
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL E
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL A
PATCH PLATE PP1
COVER PLATE
DETAIL A
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL E
DETAIL F
DETAIL G
END STIFFENER
COVER PLATE D
COVER PLATE A
TOP VIEW DETAIL B
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS
W.T.C. 214.00
STUD
TYP. EACH FLAT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	5	C32T1D - 59'-5"	ST201D
[illegible] TRUSSES		1	24T[illegible] - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A1	3	3 x 2 x 1/4 x 18'-11"	ST 403
	A2	4	3 x 2 x 1/4 x 5'-11 1/16	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F	5	2 x [illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	[illegible] x 0'-3"	ST 400
[illegible]				
COVER PLATES	A	3	9 x .0135 x 13'-11 1/2	ST303
	B	6	9 x .0135 x 15'-2	ST303
	C	3	9" x .0135" x 13'-2 1/2	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2 x 1/4" x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2 x 3/8" x 3'-6 7/8	ST298
	DUS-2	1	3 1/2 x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1"# x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2 x 1 1/4" x	BT212
			.230 x 6'-8 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

⚠1	6-9-69	AS NOTED	ODC
NO.	DATE	REVISION	BY

⚠		
	AB4	10-15-68
	AB4 5,16 & 39	7-22-68
	AB4 41	7-22-68
	A-12 4	[illegible]-6-69
	AB3	[illegible]
	AB1 7	7-22-68
	AB2 8 & 7	7-22-68
	AB4 42	10-15-68

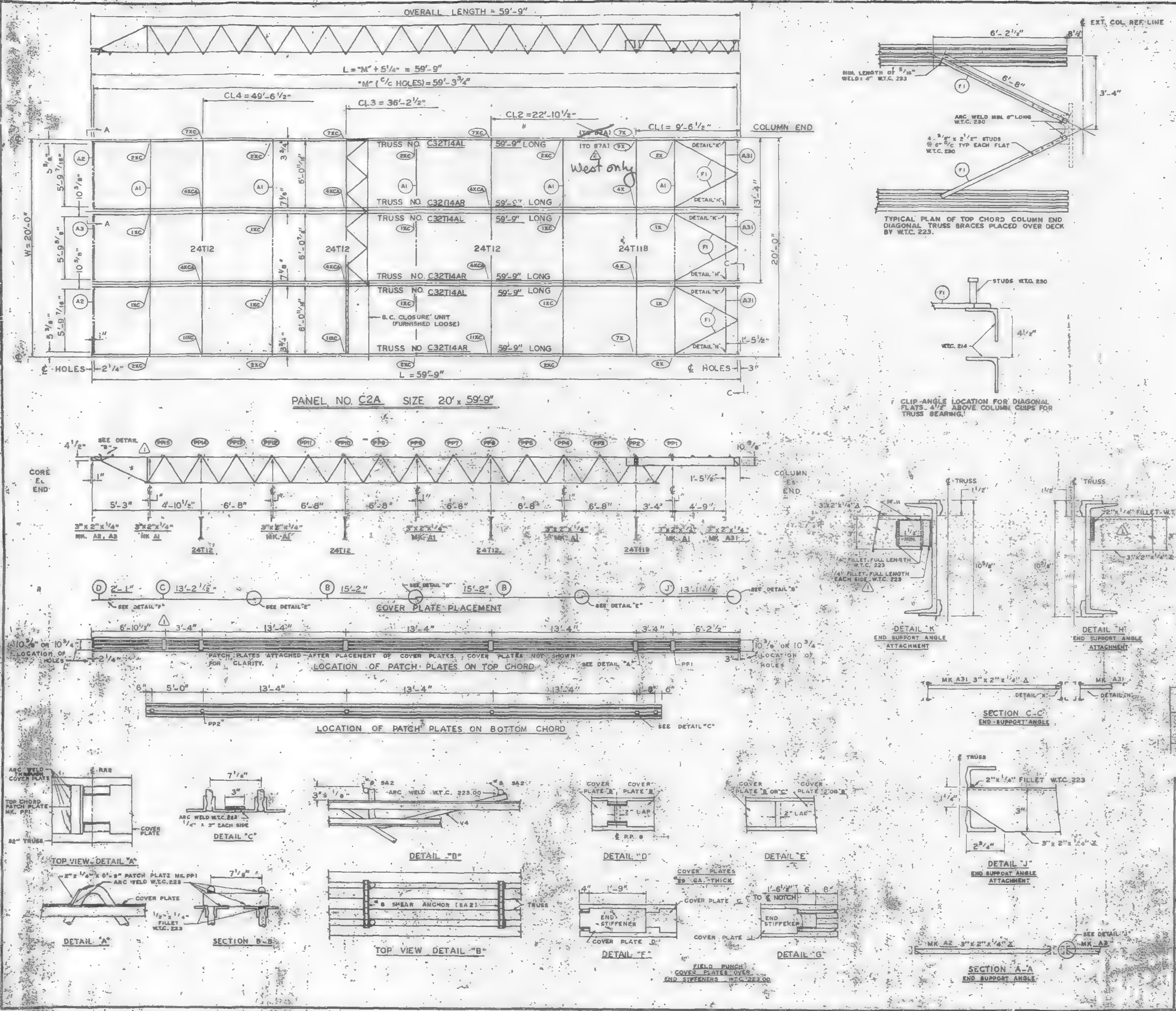
81-82 (N)

PANEL GRID [illegible] 59'-5"

BLDG. B FLOORS 81-82 (WEST) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. AB3 8	PLATE
APPROVED FOR FABRICATION BY James White	DATE 12/70	DRAWN BY [illegible] DATE OCT 23, 1968	
APPROVED FOR FABRICATION BY	DATE	CHECKED BY T.M.CHURA DATE OCT 23, 1968	IN CHARGE OF PROD. DEV.
DETAILED AT L.A.C. WESER		FABRICATION CONT. NO. 221	SHEET NO. FP C R1D


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
West only
24T12
24T118
DETAIL "K"
DETAIL "H"
B.C. CLOSURE UNIT (FURNISHED LOOSE)
W = 20'-0"
20'-0"
13'-4"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-9"
PANEL NO. C2A SIZE 20' x 59'-9"
6'-2 1/2"
6'-8"
3'-4"
℄ EXT. COL. REF. LINE
ARC WELD MBL 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
CORE ℄ END
COLUMN ℄ END
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3" x 2" x 1/4" MK. A2, A3
3" x 2" x 1/4" MK. A1
3" x 2" x 1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
#8 SHEAR ANCHOR (SA2)
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 28 GA. THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
2" x 1/4" FILLET W.T.C. 223
SECTION A-A END SUPPORT ANGLE
MK A2 3" x 2" x 1/4" ∠

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ☐ 6'-8 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 9'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS. ie.: (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

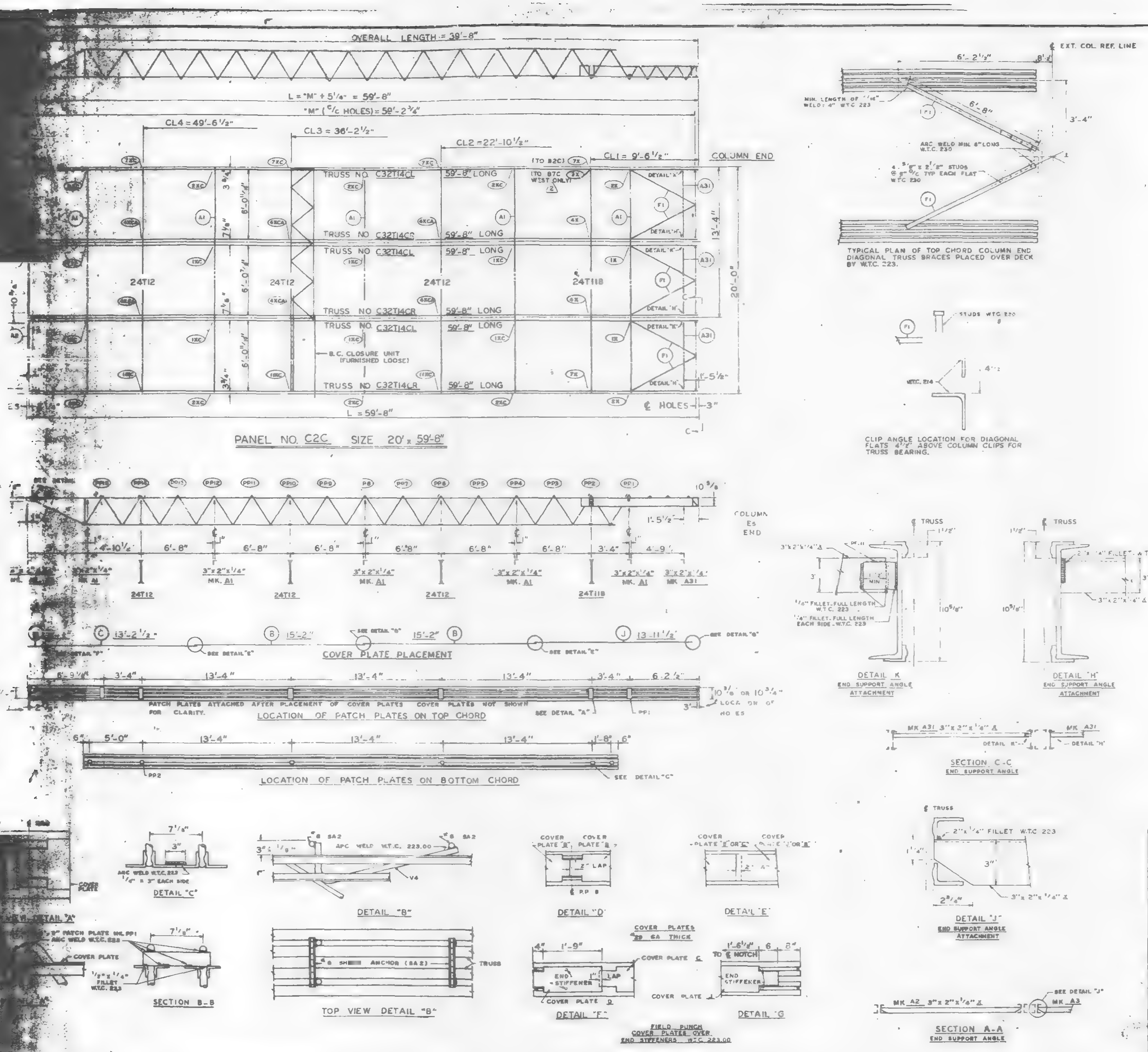
SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

REF. DRWG.		
	7-AB3-28	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) 1
PANEL C2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-26
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY
DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.N. CHUKA
DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C2A


OVERALL LENGTH = 39'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14CL 59'-8" LONG
TRUSS NO. C32T14CR 59'-8" LONG
24T12
24T11B
B.C. CLOSURE UNIT (FURNISHED LOOSE)
℄ HOLES
L = 59'-8"
PANEL NO. C2C SIZE 20' x 59'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ EXT. COL. REF. LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
DETAIL "C"
DETAIL "A"
SECTION B-B
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
COVER PLATES 28 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/8"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 5/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO	DATE	REVISION	BY.
2	6-13-69	AS NOTED	G.D.C.
	5-12-69	AS NO ED	GDC

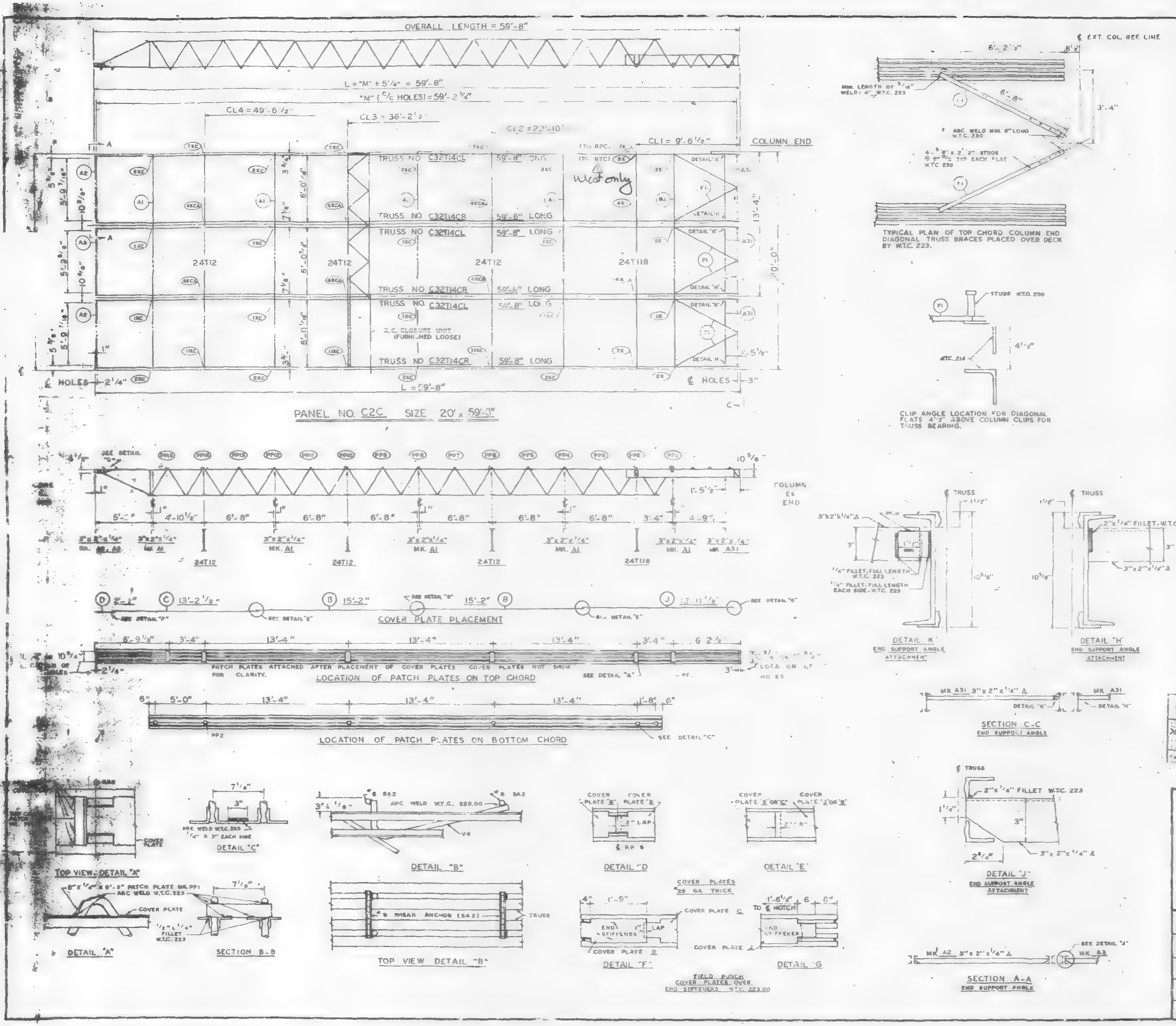
REF. DRWG.

7-AB3-28	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-28 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 1/28/69
DRAWN BY DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHUBA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP C2C


OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10'
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
24T12
24T118
West only
B.C. CLOSURE UNIT (FURNISHED LOOSE)
13'-4"
20'-0"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8"
PANEL NO. C2C SIZE 20' x 59'-8"
6'-2 1/2"
8 1/2"
℄ EXT. COL. REF. LINE
MIN. LENGTH OF 5/16" WELD: 4" W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN. 8" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" C/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SEE DETAIL "D"
PP16 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
10 5/8"
1'-5 1/2"
COLUMN END
5'-2" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
24T12 24T12 24T12 24T118
D 2'-1" C 13'-2 1/2" B 15'-2" 15'-2" B J 13'-11 1/2"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-9 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
LOCATION OF PATCH PLATES ON TOP CHORD
6" 5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ TRUSS
1 1/2"
3"x2"x1/4" ∠
PF-11
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE-W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
3"x2"x1/4" ∠
2 5/8"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3
SECTION A-A END SUPPORT ANGLE
COVER PLATE
TOP VIEW-DETAIL "A"
6"x1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
1/2"x1/4" FILLET W.T.C. 223
DETAIL "A"
SECTION B-B
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #20 GA THICK
1'-9"
END STIFFENER
1" LAP
COVER PLATE C
COVER PLATE D
DETAIL "F"
TO ℄ NOTCH
END STIFFENER
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ◻ 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5' 8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/16"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	6"x 1/4" x 0'-9"	ST 400
	PP2	18	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .035" x 13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-6"	ST 400
CONNECTION BAR	CB1	5	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3"x 1/2"x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	GOC

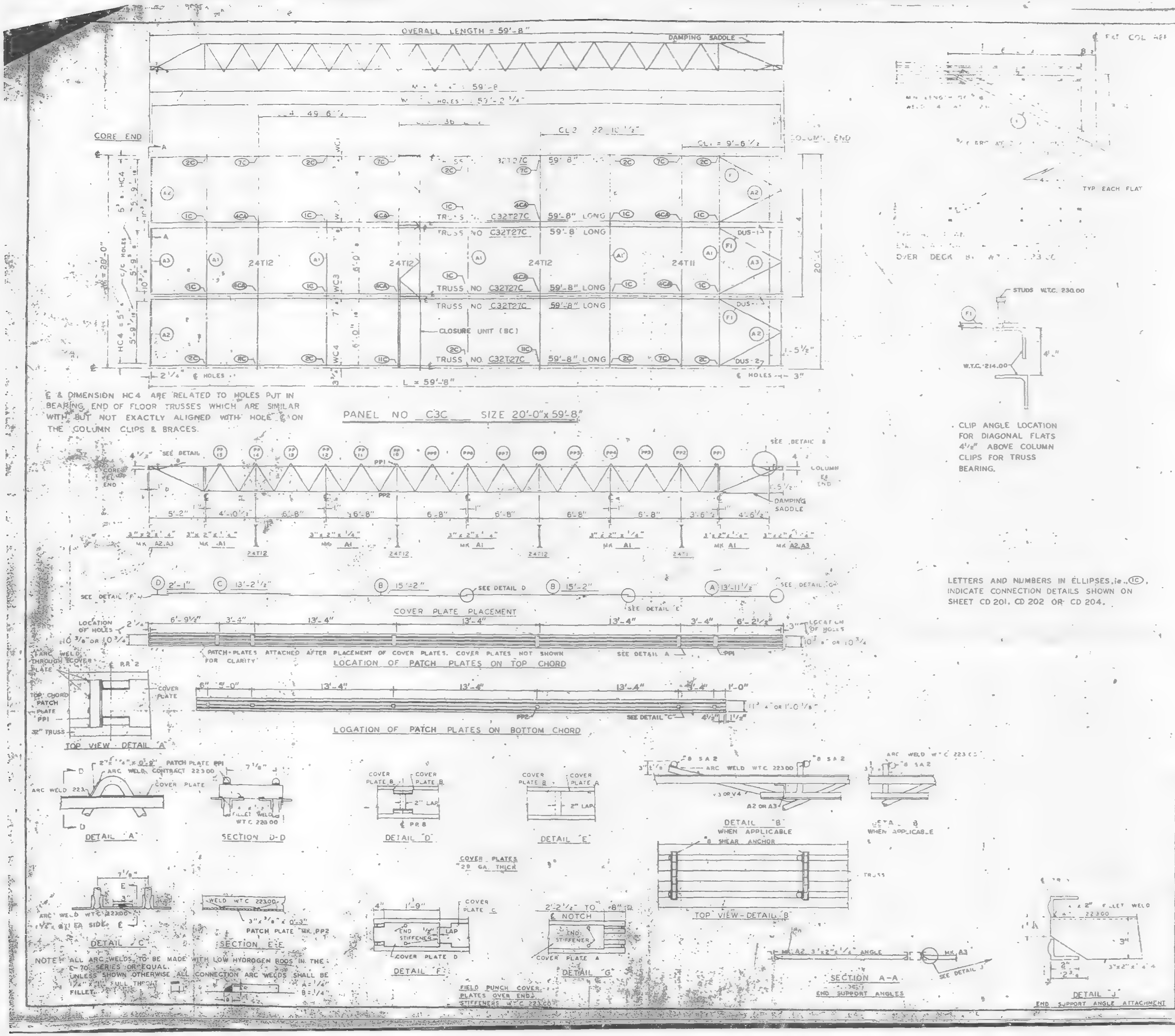
SKILLING · HELLE
CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ REVISE
☐ REJECTED
6/6/69 . SK

REF. DRWG.		
	7-AB3-28	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.
DATE
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT NO W.T.C. 221
SHEET NO FD C2C


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T27C 59'-8" LONG
24T12
24T11
CLOSURE UNIT (BC)
DUS-1
DUS-2
L = 59'-8"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH-PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL B WHEN APPLICABLE
COVER PLATES 20 GA. THICK
TOP VIEW-DETAIL B
DETAIL "C"
SECTION E-E
PATCH PLATE MK. PP2
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO C3C SIZE 20'-0" x 59'-8"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. ⓘC, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				FAB. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	27C	6	32T27C- 59'-8	ST27C
	T1	1	24" [illegible] 9'-1"	BT211
	T12	3	24T12 - 9'-11"	BT212
[illegible] ANGLE	A1	5	3"x2"x¼"x 9'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11"	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
[illegible]	F		[illegible] x 5'-8	ST 402
PATCH PLATES	PP1	18	2"x [illegible] x 0'-9"	ST 400
	PP2	18	3"x ⅜" x 0'-3"	ST 400
COVER PLATES	A	3	[illegible]	ST303
	B	6	9"x .0135"x 15'-2"	ST303
	C	3	9"x .0135"x 13'-2½"	ST303
	D	3	9"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	1	3½x3½x⅜x3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1"ϕ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-∠s 1½"x1¼"x	BT212
			.230 x 6'-6½"	CD204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

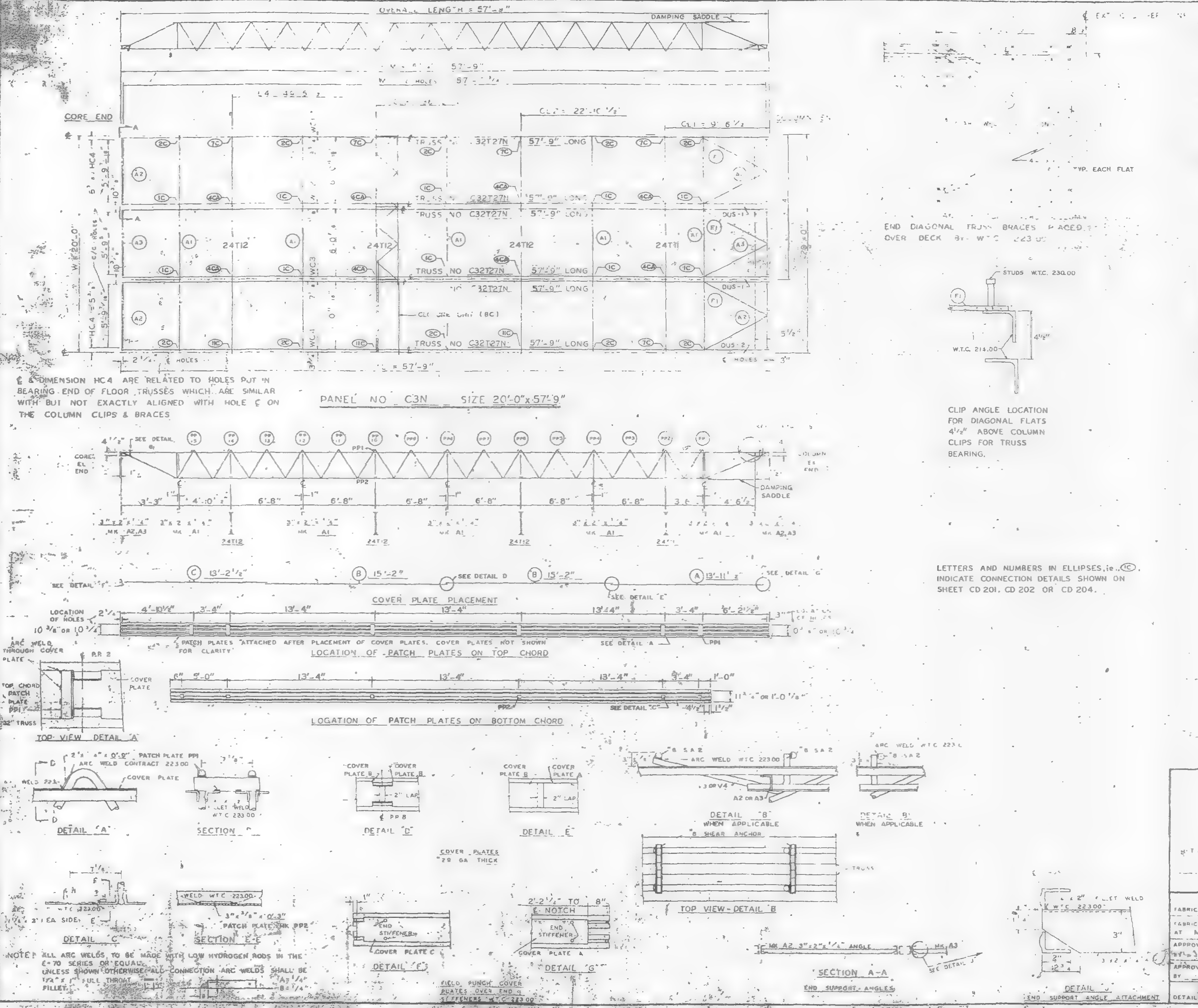
NO.	DATE	REVISION	BY

REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
	SA-12 4	1-6-69
	7-AB3-45	1-6-69
	7-AB1-24	1-6-69
	7-AB2-6 & 7	7-22-68
	7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (SOUTH)
PANEL C3C - 20'-0" x 59'-8"
BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-45
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/31/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP C3C


OVERALL LENGTH = 57'-9"
DAMPING SADDLE
57'-9"
CORE END
TRUSS NO C32T27N 57'-9" LONG
TRUSS NO C32T27N 57'-9" LONG
TRUSS NO C32T27N 57'-9" LONG
TRUSS NO C32T27N 57'-9" LONG
TRUSS NO C32T27N 57'-9" LONG
24T12
CLOSURE UNIT (BC)
DUS-1
DUS-2
2C
7C
1C
4CA
11C
A1
A2
A3
F1
2'-0"
2 1/4"
℄ HOLES
℄ = 57'-9"
SEE DETAIL
CORE EL END
COLUMN EL END
PP1
PP2
DAMPING SADDLE
3'-3"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-6"
4'-6 1/2"
MK A2,A3
MK A1
24T12
C 13'-2 1/2"
B 15'-2"
SEE DETAIL D
B 15'-2"
SEE DETAIL E
A 13'-11 1/2"
SEE DETAIL G
SEE DETAIL F
COVER PLATE PLACEMENT
LOCATION OF HOLES
10 3/8" OR 10 1/4"
4'-10 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
6"
5'-0"
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
11 1/4" OR 1'-0 1/8"
PP2
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
P.P. 2
COVER PLATE
TOP CHORD
PATCH PLATE PP1
32" TRUSS
TOP VIEW DETAIL A
2 1/2" x 4" x 0'-8" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL A
FILLET WELD W.T.C 223.00
SECTION D
COVER PLATE B
COVER PLATE B
2" LAP
℄ PP 8
DETAIL D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
COVER PLATES 28 GA THICK
#8 S.A.2
ARC WELD W.T.C 223.00
A2 OR A3
DETAIL B
WHEN APPLICABLE
ARC WELD W.T.C 223.00
#8 S.A.2
DETAIL B1
WHEN APPLICABLE
#8 SHEAR ANCHOR
TRUSS
TOP VIEW - DETAIL B
7 1/8"
W.T.C 223.00
1/4" 2" EA SIDE
E
DETAIL C
WELD W.T.C 223.00
3" x 3/8" x 0'-3"
PATCH PLATE MK PP2
SECTION E-E
END STIFFENER
COVER PLATE C
DETAIL F
2'-2 1/4" TO 8"
℄ NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C 223.00
MK A2, 3" x 2" x 1/4" ANGLE
MK A3
SEE DETAIL J
SECTION A-A
END SUPPORT ANGLES
2" FILLET WELD
W.T.C 223.00
3"
DETAIL J
END SUPPORT ANGLE ATTACHMENT
TYP. EACH FLAT
STUDS W.T.C. 230.00
F1
4 1/2"
W.T.C. 214.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

PANEL NO C3N SIZE 20'-0"x57'-9"

END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
[illegible]	27N	6	[illegible] T27N 57'-9"	ST227N
[illegible]	T2	[illegible]	24T12 [illegible]	BT212
[illegible]	A	3	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	[illegible]	[illegible] 2 x 1/4 x 5'-11 9/16	ST 403
	A3	2	3 x 2 x 1/4 x 5'-[illegible]	ST 403
[illegible]	F1	[illegible]	[illegible] 8	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	3" x 3/8" x [illegible] 3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	3	#8 RESAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS 2	1	3 1/2 x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2" x 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

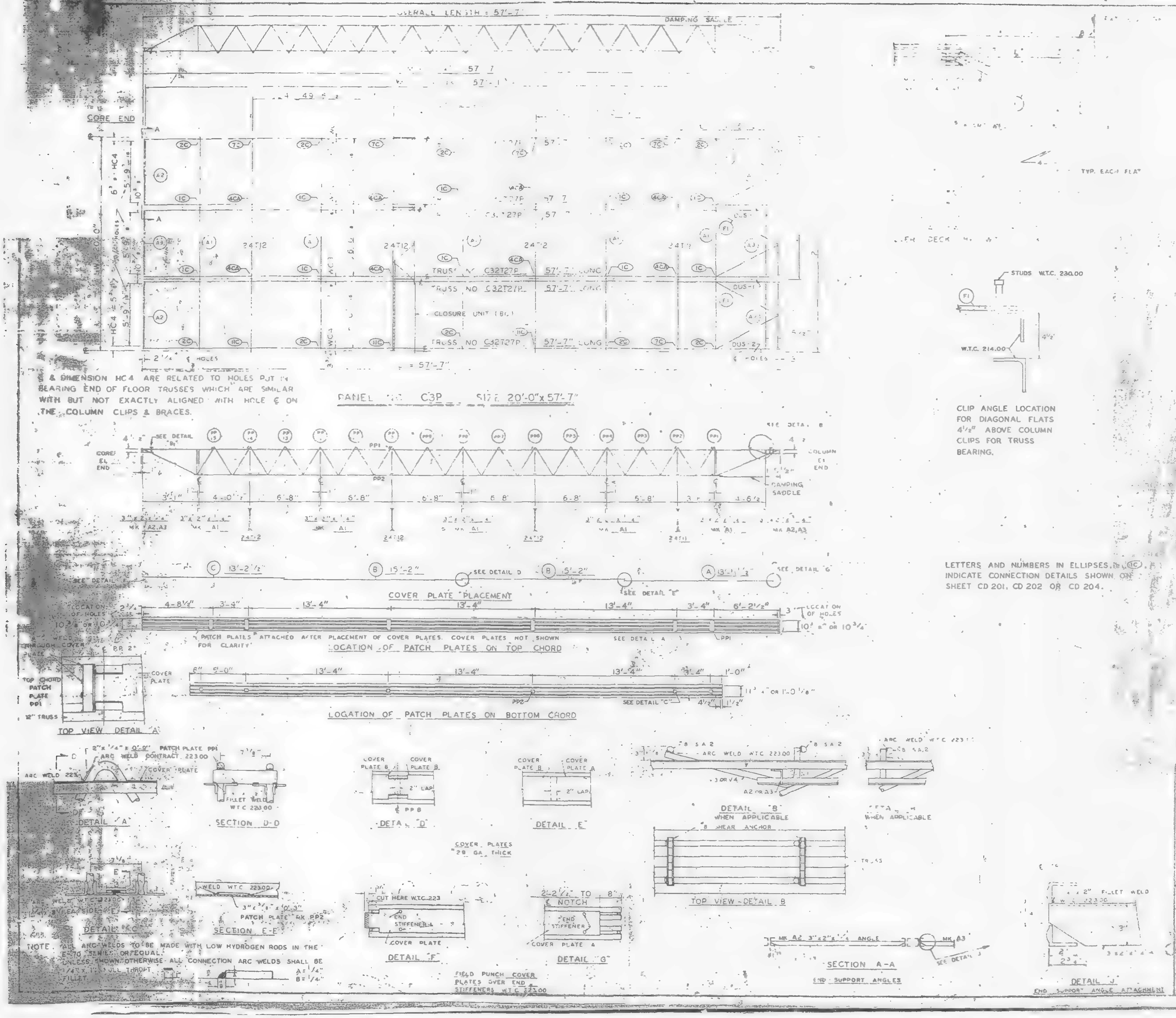
REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA 124	1-6-69
7-AB3-45	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG B [illegible] 44 (EAST)

PANEL C3N 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-45 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 7/31/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C 221
SHEET NO FP C3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CORE END
TRUSS NO. C32T27P 57'-7" LONG
TRUSS NO. C32T27P 57'-7" LONG
CLOSURE UNIT (BL)
TRUSS NO. C32T27P 57'-7" LONG
24T12
HC4
WC4
2 1/4" ℄ HOLES
℄ HOLES
57'-7"
PANEL NO. C3P SIZE 20'-0" x 57'-7"
SEE DETAIL "B"
CORE EL END
COLUMN EL END
DAMPING SADDLE
PP1
PP2
3'-1"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
5'-8"
1'-6"
MK A2, A3
MK A1
C 13'-2 1/2"
B 15'-2"
SEE DETAIL D
B 15'-2"
A 13'-1 1/2"
SEE DETAIL "G"
SEE DETAIL "E"
COVER PLATE PLACEMENT
LOCATION OF HOLES
4'-8 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF HOLES 10 3/4" OR 10 3/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
COVER PLATE
6"
3'-0"
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP CHORD PATCH PLATE PP1
12" TRUSS
TOP VIEW DETAIL "A"
2" x 1/4" x 0'-9" PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
ARC WELD 223.00
DETAIL "A"
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
PP8
DETAIL "D"
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL "E"
COVER PLATES 28 GA. THICK
B SA 2
ARC WELD W.T.C. 223.00
A2 OR A3
DETAIL "B" WHEN APPLICABLE
B SHEAR ANCHOR
TOP VIEW - DETAIL B
ARC WELD W.T.C. 223.00
B SA 2
DETAIL "H" WHEN APPLICABLE
WELD W.T.C. 223.00
ARC WELD W.T.C. 223.00
E
DETAIL "C"
3" x 3/8" x 0'-3" PATCH PLATE MK PP2
SECTION E-E
CUT HERE W.T.C. 223
END STIFFENER
COVER PLATE
DETAIL "F"
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
MK A2 3" x 2" x 1/4" ANGLE
MK A3
SEE DETAIL "J"
SECTION A-A
END SUPPORT ANGLES
2" FILLET WELD
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/8" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1/4" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

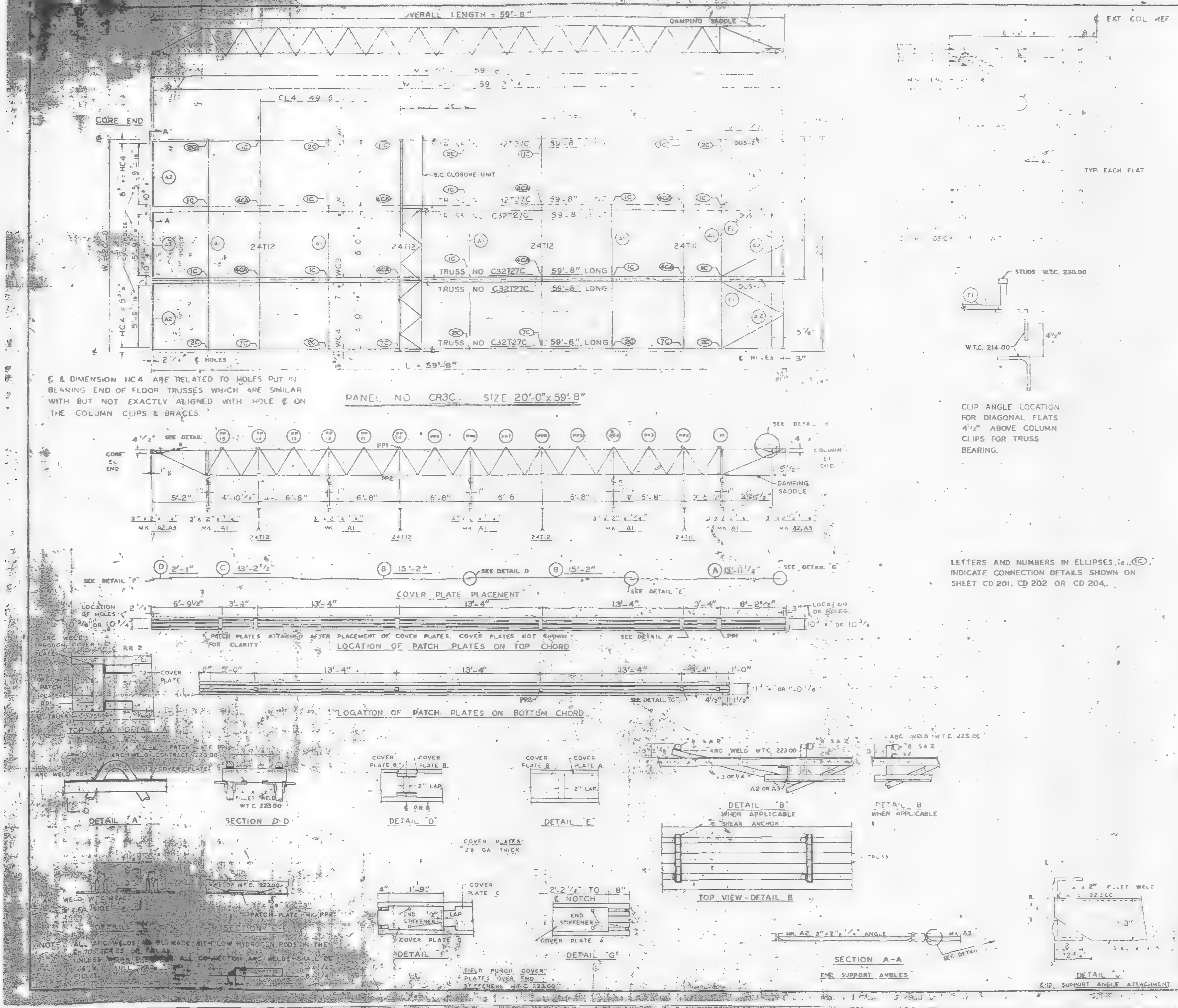
REQUIRED MATERIAL PER PANEL				REF DRWG
[illegible]	27P		C32T27P 57'-7"	ST227P
[illegible]				BT 211
[illegible]				BT 212
[illegible]				ST 403
[illegible]				ST 403
[illegible]				ST 403
[illegible]				ST 402
[illegible]	PP1	8		ST 400
PATCH [illegible]	PP2	15		ST 400
[illegible]		21	[illegible]	ST 400
[illegible]	SA2	9	REBAR x 0'-9"	ST 400
[illegible]	CB	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 2" x 1 1/4" x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
	7-SA 12A	1-6-69
	7-AB3-45	1-6-69
	7-AB1-24	1-6-69
	7-AB2-6 & 7	7-22-68
	7-AB4-42	10-15-68

NEW YORK AUTHORITY
78 (NORTH)
PANEL C3P - 20'-0" x 57'-7"
BLDG. B FLOORS 78 (WEST)

FABRICATION BY: PACIFIC STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-45 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/3/69	DRAWN BY DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969 · IN CHARGE OF PROD. DEPT.
DETAILED BY A.S. WEBER	FABRICATION CONT. NO. W.T.C. 221 · SHEET NO. FP C3P


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
℄ EXT COL REF LINE
CORE END
CL4 49'-6
B.C. CLOSURE UNIT
TRUSS NO C32T27C 59'-8" LONG
24T12
24T11
WC3
WC4
HC4
L = 59'-8"
PANEL NO CR3C SIZE 20'-0" x 59'-8"
SEE DETAIL
CORE END
COLUMN END
PP1
PP2
DAMPING SADDLE
5'-2"
4'-10 1/2"
6'-8"
MK A2, A3
MK A1
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL E
SEE DETAIL F
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW-DETAIL A
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW-DETAIL B
COVER PLATES 29 GA. THICK
DETAIL "F"
DETAIL "G"
END STIFFENER
SECTION A-A
END SUPPORT ANGLES
DETAIL
END SUPPORT ANGLE ATTACHMENT
STUDS W.T.C. 230.00
W.T.C. 214.00
TYP. EACH FLAT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS [illegible] MADE WITH LOW HYDROGEN RODS IN THE [illegible] UNLESS [illegible] CONNECTION ARC WELDS SHALL BE [illegible]

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
[illegible]	[illegible]27C	6	32T27C- 59'-8"	ST227C
[illegible]	[illegible]	1	24T[illegible]	BT211
	T12	3	24T12 - [illegible]	BT212
[illegible]	A1	5	3"x2"x1/4"x[illegible]	ST 403
	A2	4	[illegible]	ST 403
	A[illegible]		[illegible]	ST 403
	F		[illegible] 8	ST 402
PATCH PLATES	PP1	18	[illegible] 9	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	[illegible]	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS4	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS[illegible]	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1 1/4" x	BT212
			.230 x 6'-6 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

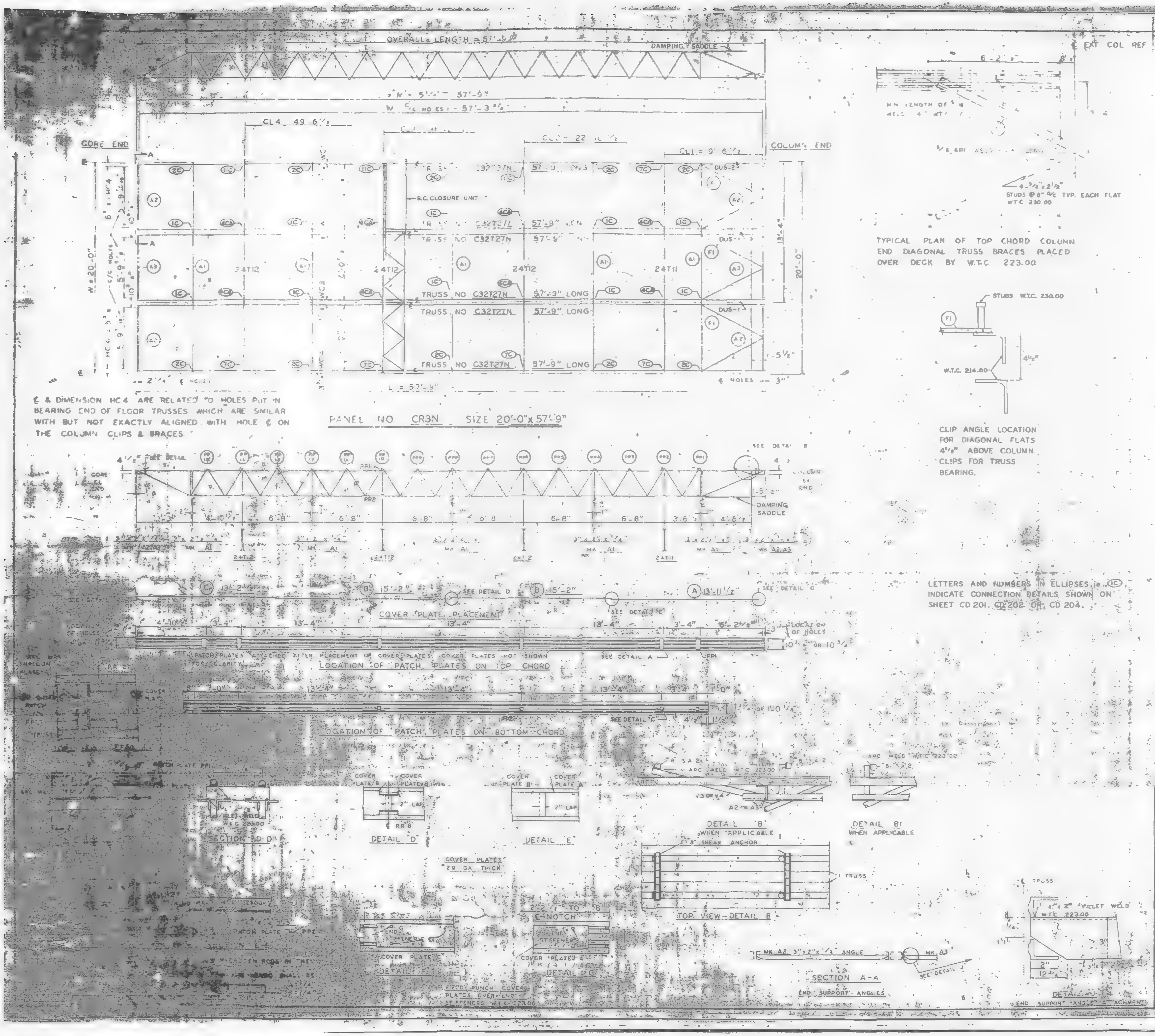
REF DRWG		
	7-AB4-3	10-15-68
	7-AB4-15 & 16	7-22-68
	7-AB4-41	7-22-68
	SA-12 4	1-6-69
	7-AB3-46	1-6-69
	7-AB1-24	1-6-69
	7-AB2-6 & 7	7-22-68
	7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A [illegible] 78 (SOUTH)
PANEL CR3C - 20'-0" x 59'-8"
BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-46	PLATE [illegible]
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/3/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]	FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP-CR3C


OVERALL LENGTH = 57'-5"
DAMPING SADDLE
W C/C HOLES = 57'-3 3/4"
CL4 49'-6 1/2"
CORE END
COLUMN END
TRUSS NO C32T27N 57'-9" LONG
B.C. CLOSURE UNIT
24T12
24T11
20'-0"
L = 57'-9"
EXT COL REF LINE
STUDS @ 8" c/c TYP. EACH FLAT W.T.C. 230.00
STUDS W.T.C. 230.00
W.T.C. 214.00
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL G
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL A
SEE DETAIL C
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
#8 SHEAR ANCHOR
ARC WELD W.T.C. 223.00
COVER PLATES 29 GA THICK
TOP VIEW - DETAIL B
DETAIL F
DETAIL G
NOTCH
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x2"x1/2" ANGLE
SECTION A-A
END SUPPORT ANGLES
DETAIL J
END SUPPORT ANGLE ATTACHMENT
1/4" x 2" FILLET WELD W.T.C. 223.00

PANEL NO CR3N SIZE 20'-0" x 57'-9"

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27N	6	C32T27-N 57'-9"	ST2[illegible]
[illegible] TRUSSES	T[illegible]		24[illegible]	ST2[illegible]
	T2	3	24T 2[illegible]-9 11"	ST 2[illegible]
[illegible] ANGLE	A1	5	3 x 2 x [illegible] x 10-[illegible]	ST 403
	A2	4	[illegible] x 2 [illegible] x 5-1 [illegible]	ST 403
	A	2	[illegible]	ST 403
[illegible]	F	5	[illegible] x 5-6	ST 402
PATCH PLATES	PP1	18	2 [illegible]	ST 400
	PP2	16	3 [illegible]	ST 400
[illegible] PLATES	A	3	9 x 0.35 x 3-[illegible]	ST303
	B	6	9 x 0.35 x 15-2	ST303
	C	3	9 x 0.35 x 3 2 1/2	ST303
ANGLE CLIPS	C1	21	2 x 1 1/2 x 1/4 x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2 x 3 1/2 x 3/8" x 3-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST298
CONNECTION BAR	CB1	4	1 # x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-5-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

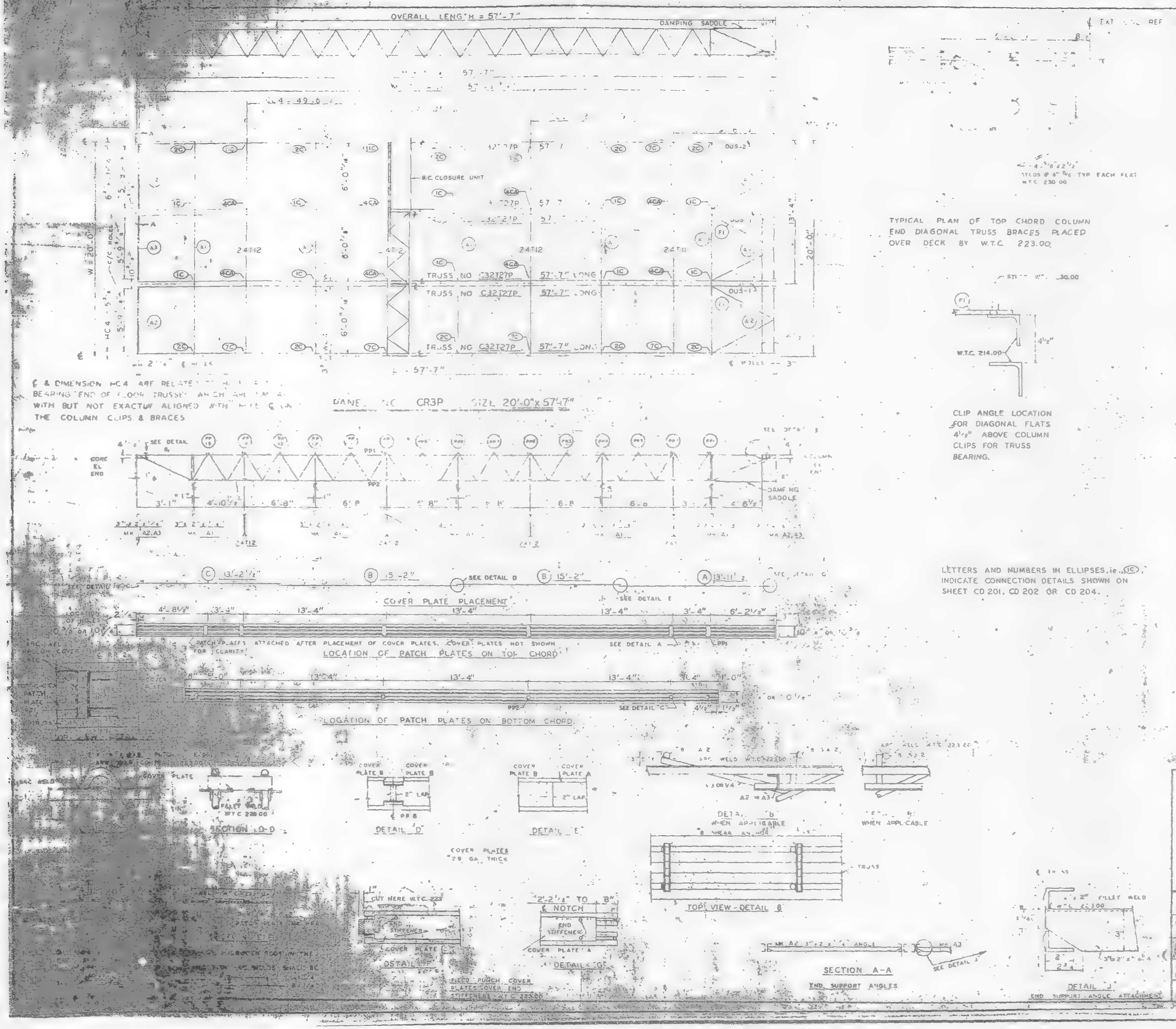
BLDG B FLOORS 44 (EAST)

PANEL CR3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-46	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 7/3/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP CR3N

LACLEDE STEEL CO


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
57'-7"
W = 20'-0"
20'-0"
B.C. CLOSURE UNIT
TRUSS NO C32T27P 57'-7" LONG
TRUSS NO C32T27P 57'-7" LONG
TRUSS NO C32T27P 57'-7" LONG
24T12
DUS-2
DUS-1
2C
1C
4CA
7C
A1
A2
A3
F1
6'-0 1/4"
8'-0 1/4"
6'-0 1/4"
13'-4"
PANEL NO CR3P SIZE 20'-0" x 57'-7"
CORE EL END
SEE DETAIL
PP1
PP2
3'-1"
4'-10 1/2"
6'-8"
DAMPING SADDLE
MK A2, A3
MK A1
24T12
13'-2 1/2"
15'-2"
15'-2"
13'-11"
SEE DETAIL D
SEE DETAIL E
COVER PLATE PLACEMENT
4'-8 1/2"
13'-2"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
13'-4"
13'-4"
13'-4"
1'-0"
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATE
FILLET WELD W.T.C. 223.00
SECTION D-D
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL D
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL E
COVER PLATES .78 GA. THICK
A2 or A3
DETAIL B WHEN APPLICABLE
DETAIL B WHEN APPLICABLE
TOP VIEW - DETAIL B
TRUSS
CUT HERE W.T.C. 223
END STIFFENER
COVER PLATE C
DETAIL
2'-2 1/2" TO 8"
NOTCH
END STIFFENER
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS - W.T.C. 223.00
MK A2 3" x 2 x 1/4" ANGLE
MK A3
SEE DETAIL J
SECTION A-A
END SUPPORT ANGLES
1/4" x 2" FILLET WELD W.T.C. 223.00
3"
3" x 2" x 1/4"
DETAIL J
END SUPPORT ANGLE ATTACHMENT
STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230.00
F1
W.T.C. 214.00
4 1/2"

℄ & DIMENSION HC4 ARE RELATED TO BEARING END OF FLOOR TRUSSES WHICH ARE IN LINE WITH BUT NOT EXACTLY ALIGNED WITH ℄ OF THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
[illegible]	27P	[illegible]	C32T27P 57'-7"	ST227P
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	24[illegible]	[illegible]
[illegible]	A	8	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	SF	8	[illegible]	ST 400
PATCH PLATES	PP	6	[illegible]	ST 400
[illegible]	[illegible]	3	[illegible]	[illegible]
[illegible]	[illegible]	6	[illegible] x 3'-2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] x 3'-2"	[illegible]
[illegible]	[illegible]	21	2 x 2 x 1/4 x 0' 6	ST 400
[illegible]	SA2	9	# REBAR x 0'-9"	ST 400
[illegible]	DUS 1	2	3 1/2 x 3 1/2 x 3/8" x 3'-6 7/8"	ST 298
	DUS 2	1	3 1/2 x 3 1/2 x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 1/8 x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2 x 1 1/4" x .230 x 6'-6 1/2"	ST 212 CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

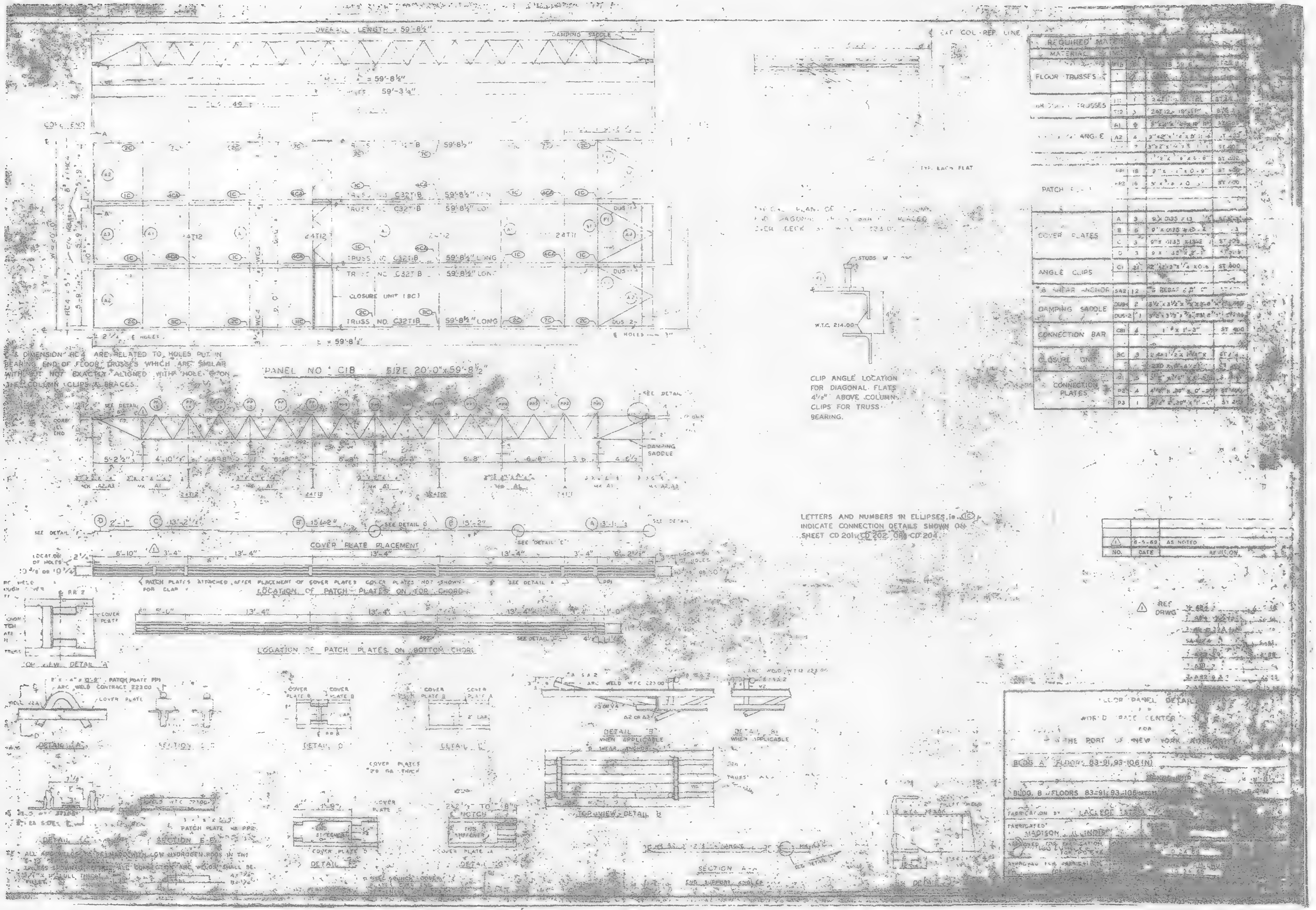
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-12.4	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. [illegible] 78 (NORTH)
PANEL CR3P 20'-0" x 57'-7"
BLDG. B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-46	
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 7/3/69	DRAWN BY [illegible] DATE APRIL 28, 969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 28, 969	IN CHARGE OF PROD. DEV.
DETAIL [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP CR3P


OVERALL LENGTH = 59'-8½"
DAMPING SADDLE
= 59'-8½"
59'-3¼"
EXT. COL. REF. LINE
CORE END
TRUSS NO. C32T1B 59'-8½" LONG
24T12
24T11
DUS-1
DUS-2
CLOSURE UNIT (BC)
2C
1C
4CA
7C
11C
A1
A2
A3
F1
HC4
WC3
WC4
2¼" ℄ HOLES
℄ HOLES
℄ = 59'-8½"
SEE DETAIL
CORE END
PP1
PP2
5'-2½"
4'-10½"
6'-8"
3'-6"
4'-6½"
COVER PLATE PLACEMENT
2'-1"
13'-2½"
15'-2"
13'-1"
SEE DETAIL "C"
LOCATION OF HOLES
6'-10"
3'-4"
13'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
COVER PLATE
TOP VIEW DETAIL "A"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL "A"
SECTION "F-F"
COVER PLATE B
COVER PLATE A
DETAIL "C"
DETAIL "D"
COVER PLATES
ARC WELD W.T.C. 223.00
DETAIL "B" WHEN APPLICABLE
SHEAR ANCHOR
DETAIL "B" WHEN APPLICABLE
TOP VIEW DETAIL "B"
PATCH PLATE MK PP2
DETAIL "C"
SECTION "E-E"
NOTCH
DETAIL "F"
DETAIL "G"
SECTION "A-A"
END SUPPORT ANGLES
STUDS
W.T.C. 214.00
4½"
TYP. EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

PANEL NO. C1B SIZE 20'-0" x 59'-8½"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE [illegible]
UNLESS SHOWN [illegible] ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL				
MATERIAL	MK	[illegible]	[illegible]	[illegible]
FLOOR TRUSSES	C32T1B	[illegible]	[illegible] 59'-8"	[illegible]
[illegible] TRUSSES	T11	1	24T11 [illegible]	[illegible]
	T12	3	24T12 [illegible]	[illegible]
[illegible] ANGLE	A1	[illegible]	[illegible]	[illegible]
	A2	4	3" x 2" x [illegible]	[illegible]
	[illegible]	[illegible]	3" x 2" x [illegible]	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	ST 400
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	16	3" x [illegible] x 0'-[illegible]	ST 400
COVER PLATES	A	3	9" x .035 x 13'-[illegible]	[illegible]
	B	6	9" x .035 x [illegible]	[illegible]
	C	3	9" x .035 x 13'-2	ST 400
	D	3	9" x .035" x 2'-1	[illegible]
ANGLE CLIPS	C1	21	2" x 2" x ¼ x 0'-6	ST 400
#5 SHEAR ANCHOR	SA2	12	#5 REBAR [illegible]	[illegible]
DAMPING SADDLE	DUS-1	2	3½" x 3½" x [illegible]	[illegible]
	DUS-2	1	3½" x 3½" x [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible] x 1½" x [illegible]	[illegible]
			.230 x [illegible]	[illegible]
CONNECTION PLATES	P1	5	[illegible]	[illegible]
	P2	4	4½" x .36" x 0'-2[illegible]	[illegible]
	P3	1	[illegible] x .36" x [illegible]	[illegible]

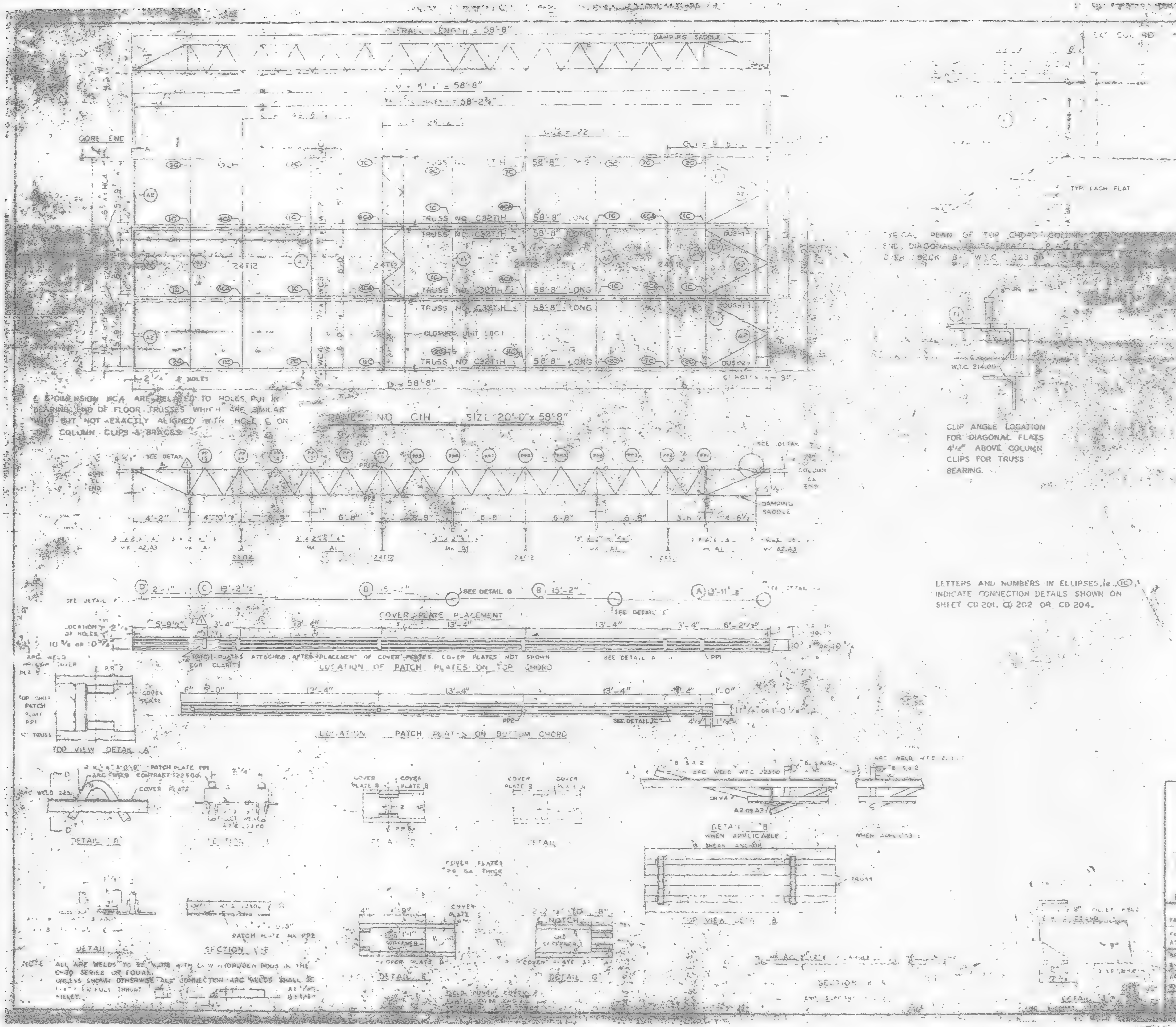
NO.	DATE	REVISION
1	6-5-69	AS NOTED

1 REF DRWG

FLOOR PANEL DETAIL
[illegible]
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 83-91, 93-106 (N)
BLDG. B FLOORS 83-91, 93-106 WEST

FABRICATION BY LACLEDE STEEL
FABRICATED MADISON, ILLINOIS
APPROVED FOR FABRICATION
APPROVED FOR FABRICATION


OVERALL LENGTH = 58'-8"
DAMPING SADDLE
58'-8"
58'-2 3/4"
CORE END
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
TRUSS NO. C32T1H 58'-8" LONG
CLOSURE UNIT 18C1
TRUSS NO. C32T1H 58'-8" LONG
24T12
WC4
2 1/4 ℄ HOLES
= 58'-8"
PANEL NO. C1H SIZE 20'-0" x 58'-8"
SEE DETAIL
CORE EL END
DAMPING SADDLE
4'-2"
4'-0"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
4'-6 1/2"
24T12
24T12
COVER PLATE PLACEMENT
SEE DETAIL B
SEE DETAIL E
5'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
6"
13'-4"
13'-4"
13'-4"
1'-0"
SEE DETAIL
PP2
LOCATION PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
COVER PLATE
TOP CHORD PATCH PLATE PP1
DETAIL A
SECTION
COVER PLATE B
COVER PLATE B
DETAIL
COVER PLATES
ARC WELD W.T.C. 223.00
A2 OR A3
DETAIL B WHEN APPLICABLE
SHEAR ANCHOR
WHEN APPLICABLE
TOP VIEW DETAIL B
TRUSS
PATCH PLATE MK PP2
DETAIL C
SECTION E-E
DETAIL F
NOTCH
DETAIL G
SECTION
TYP. EACH FLAT
W.T.C. 214.00

℄ & DIMENSION WCA ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ OR COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD COLUMN END, DIAGONAL TRUSS BRACES PLACED O.E. DECK B W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1H	4	32T1H 58'-8"	[illegible]
[illegible] TRUSSES	T11		24T12 [illegible]	[illegible]
	T12	3	24T12 - 19'-1 1/2"	[illegible]
[illegible] ANGLE	A1	5	3"x2 1/2"x[illegible]	ST 400
	A2	6	3"x2 1/2"x1/4"x 6'-[illegible]	ST 400
	A3	2	3"x2"x1/4"x 5'-[illegible]	ST 400
DIAGONAL FLATS	F1	6	1 1/2"x1/4"x[illegible]	ST 400
PATCH PLATES	PP1	18	2"x1/4"x 0'-[illegible]	ST 400
	PP2	18	3"x5/8"x 0'-3"	ST 400
COVER PLATES	A	3	[illegible]	[illegible]
	B	6	[illegible]	[illegible]
	C	3	[illegible]	[illegible]
	D	3	[illegible]	[illegible]
ANGLE CLIPS	C1	21	[illegible]	[illegible]
B SHEAR ANCHOR	SA2	9	[illegible]	[illegible]
DAMPING SADDLE	DUS1	2	[illegible]	[illegible]
	DUS-2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	18C	3	[illegible]	[illegible]
CONNECTION PLATES	P1	5	3 1/2"x[illegible]	[illegible]
	P2	4	4 1/2"x .39" x 0'-9 7/8"	ST 400
	P3	1	4 1/2" x .39" x 1'-2 5/8"	ST 400

NO	DATE	REVISION
⚠1	6-6-05	AS NOTED

N.Y.C.

[illegible] NEW [illegible] AUTHORITY

BLDG. [illegible] 79-80(N)

PANEL C1H [illegible] 58'-8"

BLDG. B FLOORS 79-80 (WEST) ⚠1

FABRICATED BY [illegible] STEEL COMPANY

FROM CONTRACT AT MADISON, ILLINOIS

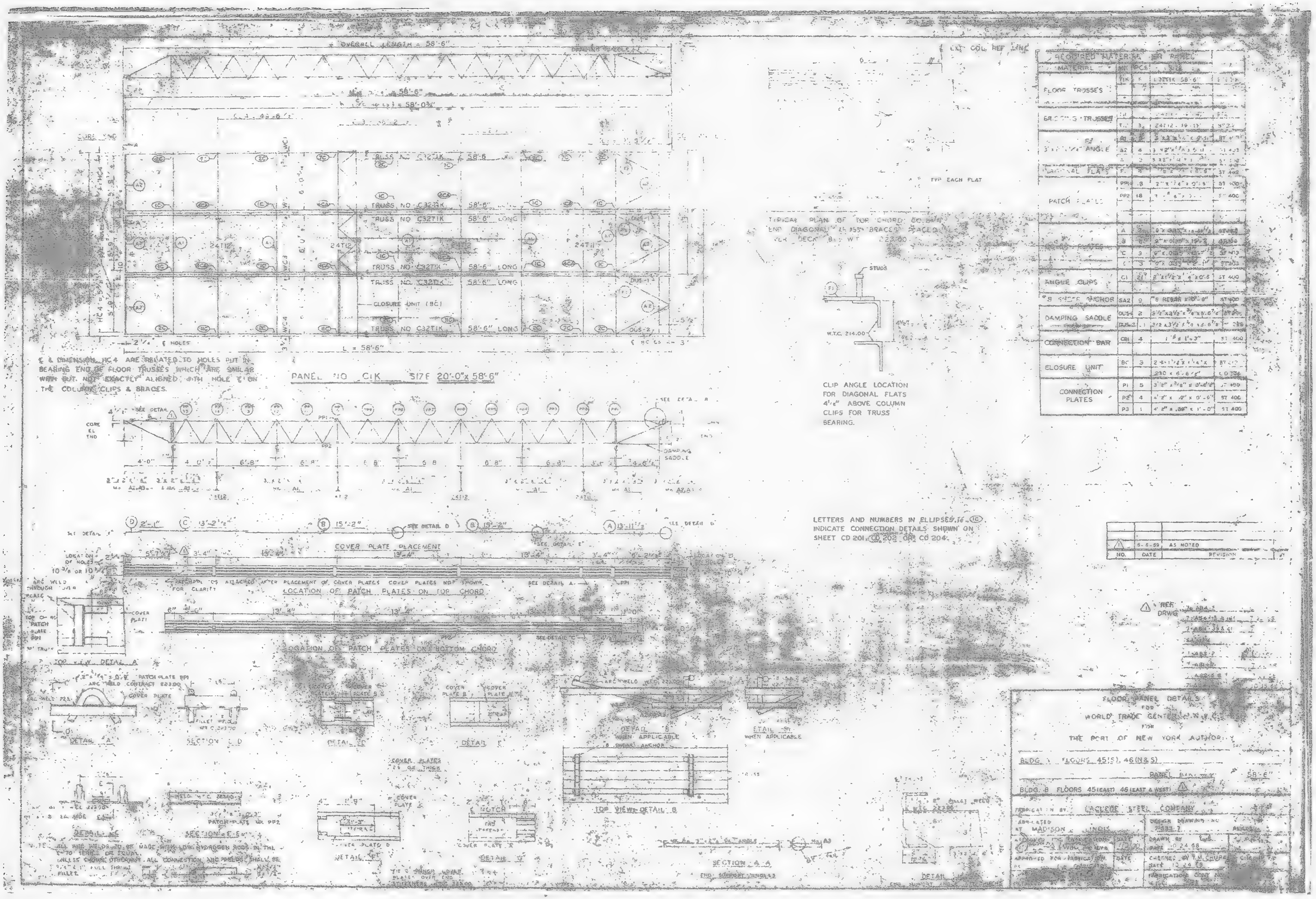
DESIGN DRAWING NO. [illegible] 7-22-68

APPROVED FOR FABRICATION BY [illegible] DATE [illegible]

APPROVED FOR [illegible]

DRAWN BY [illegible] 6-24-68

CHECKED BY M. CHU [illegible] 6-24-68


OVERALL LENGTH = 58'-6"
58'-6"
CORE END
TRUSS NO. C32TIK 58'-6"
TRUSS NO C32TIK 58'-6" LONG
24T12
24T11
CLOSURE UNIT (BC)
DUS-2
L = 58'-6"
HOLES
PANEL NO. C1K 517F 20'-0" x 58'-6"
SEE DETAIL
DAMPING SADDLE
4'-0"
6'-8"
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL E
13'-4"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
SEE DETAIL C
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATE
PATCH PLATE PP1
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL B1 WHEN APPLICABLE
ARC WELD
TOP VIEW DETAIL B
COVER PLATES .26 OR THICK
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
DETAIL F
DETAIL G
SECTION A-A
END SUPPORT ANGLES
NOTCH
COVER PLATE A
COVER PLATE D
TYPICAL PLAN OF TOP CHORD CO... END DIAGONAL CROSS BRACES SPACED FOR DECK BY WT 223.00
TYP EACH FLAT
STUDS
W.T.C. 214.00
EXT. COL. REF. LINE

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES IE (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION AND WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL

MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIK	[illegible]	C32TIK 58'-6"	[illegible]
BRACING TRUSSES	[illegible]		24T12 [illegible]	[illegible]
	[illegible]	3	24T12 - 19'-1[illegible]	[illegible]
3" x 2" x ¼" ANGLE	A1	[illegible]	[illegible]	ST [illegible]
	A2	4	3" x 2" x ¼" x [illegible]	ST 402
	[illegible]	2	3" x 2" x ¼" [illegible]	ST [illegible]
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	8	3" x ¼" x 0'-3"	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	8" x .035" x [illegible]	[illegible]
	B	3	8" x .035" x 19'-[illegible]	[illegible]
	C	3	8" x .035" x [illegible]	ST 412
	[illegible]	3	8" x .035" x 2'-1"	ST 203
ANGLE CLIPS	C1	21	3" x 1½" x ¼" x 0'-6"	ST 400
#5 SHEAR ANCHOR	SA2	9	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x ⅜" x 5'-6⅞"	[illegible]
	DUS-2	1	3½" x 3½" x ⅜" x 5'-6⅞"	[illegible]
CONNECTION BAR	CB1	4	1⅝" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - [illegible]	ST 412
			.230 x 6'-6⅞"	LD 334
CONNECTION PLATES	P1	5	3'-2" x ⅜" x 0'-8½"	ST 400
	P2	4	4'-2" x .19" x 0'-9"	ST 400
	P3	1	4'-2" x .58" x 1'-0"	ST 400

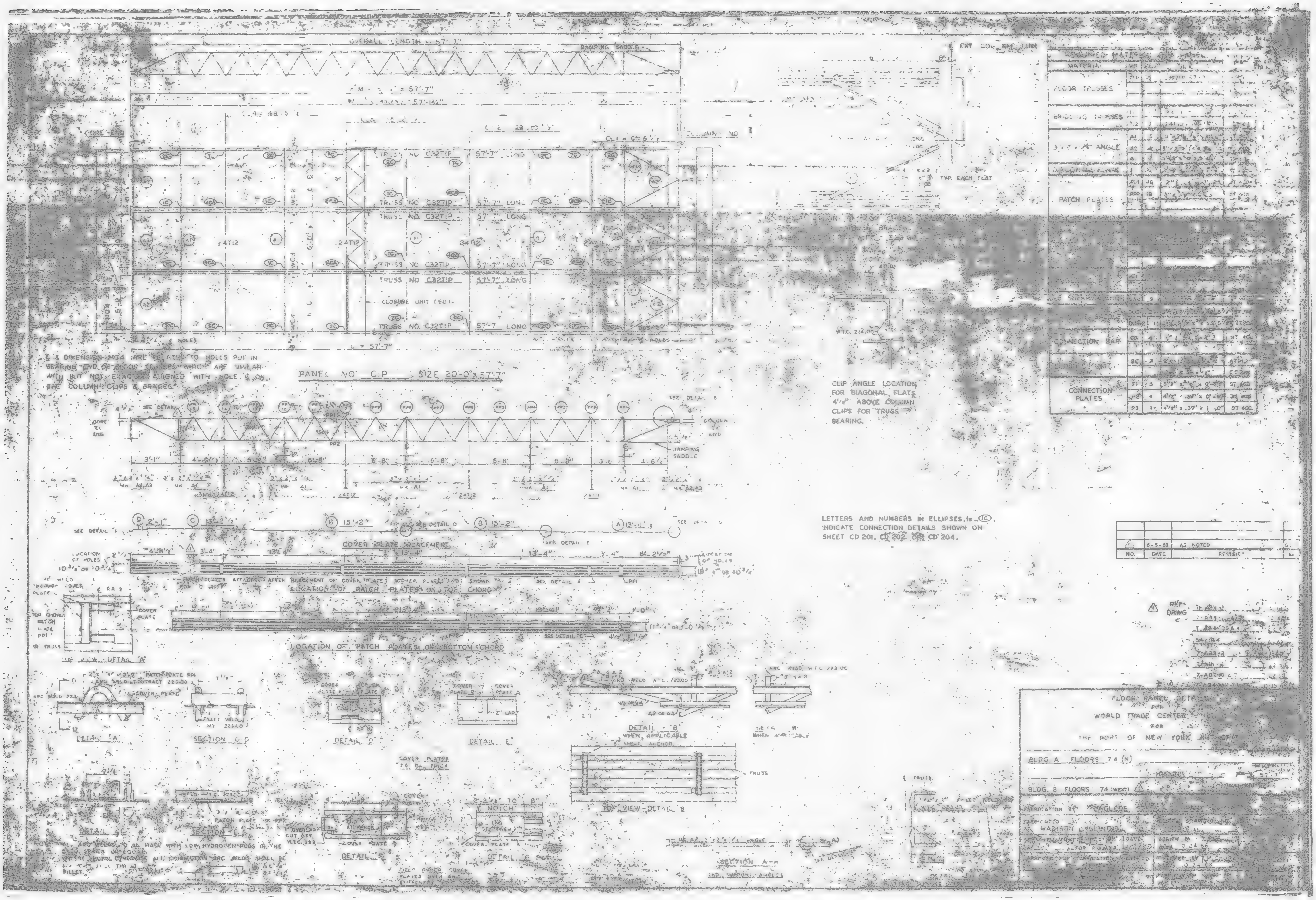
NO.	DATE	REVISION
1	6-6-69	AS NOTED

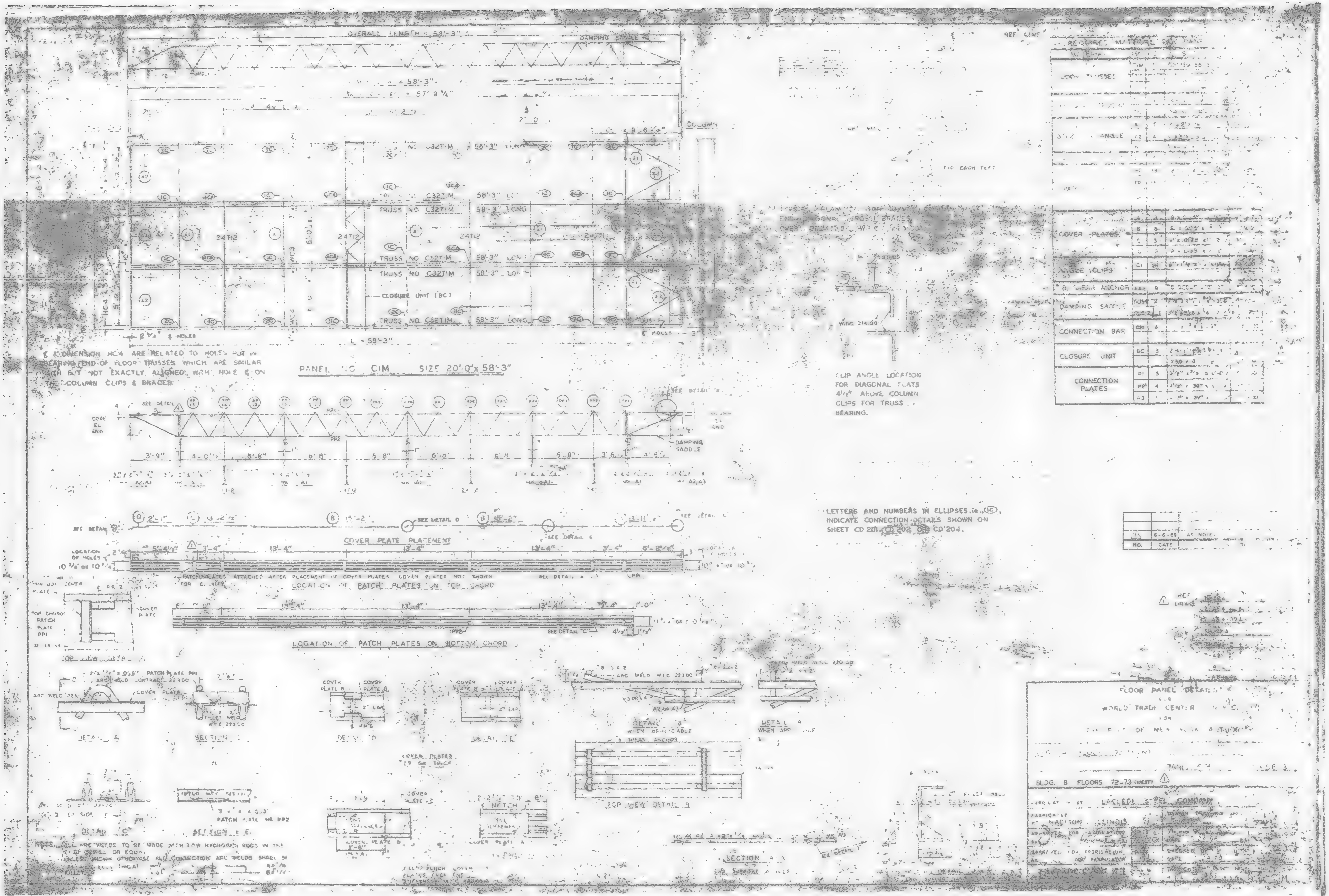
1 REF. DRWG.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45(S), 46 (N & S)
PANEL [illegible] 58'-6"
BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
DRAWN BY [illegible] DATE 10 24 68
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY T.M. CHURE DATE 10 24 68
FABRICATION CONT. NO.

OVERALL LENGTH = 57'-7"
DAMPING SADDLE
TRUSS NO. C32T1P 57'-7" LONG
24T12
CLOSURE UNIT (8C)
CORE
COLUMN
PANEL NO. C1P SIZE 20'-0" x 57'-7"
SEE DETAIL B
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "A"
SECTION D-D
DETAIL D
DETAIL E
DETAIL "B" WHEN APPLICABLE
TOP VIEW - DETAIL B
SECTION A-A
REQUIRED MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
PATCH PLATES
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
1 6-6-69 AS NOTED
NO. DATE REVISION
REF. DRWG
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER FOR THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 74 (N)
BLDG. B FLOORS 74 (WEST)
FABRICATION BY PACIFIC
MADISON, ILLINOIS
3-24-68



OVERALL LENGTH = 58'-3"
DAMPING SADDLE
L = 58'-3"
57' 9 3/4"
COLUMN
TRUSS NO. C32T-M 58'-3" LONG
TRUSS NO. C32TIM 58'-3" LONG
TRUSS NO. C32T-M 58'-3" LONG
TRUSS NO. C32TIM 58'-3" LONG
CLOSURE UNIT (BC)
TRUSS NO. C32TIM 58'-3" LONG
24T12
HC4
WC3
WC4
2 3/4" ℄ HOLES
℄ HOLES
L = 58'-3"
PANEL NO CIM SIZE 20'-0"x 58'-3"
SEE DETAIL
CORE EL END
PP1
PP2
DAMPING SADDLE
3'-9"
4'-0"
6'-8"
6'-8"
5'-8"
6'-8"
5'-8"
3'-6"
A2,A3
SEE DETAIL D
SEE DETAIL E
COVER PLATE PLACEMENT
LOCATION OF HOLES
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN
SEE DETAIL A
LOCATION OF PATCH PLATES ON TOP CHORD
TOP CHORD PATCH PLATE PP1
COVER PLATE
TOP VIEW DETAIL
6'-0"
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
PP2
SEE DETAIL C
4 1/2"
1 1/2"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE PP1
ARC WELD CONTRACT 22300
ARC WELD
COVER PLATE
DETAIL A
FILLET WELD
SECTION
COVER PLATE B
COVER PLATE A
2" LAP
DETAIL D
DETAIL E
ARC WELD W.T.C. 22300
DETAIL B
WHEN APPLICABLE
DETAIL 9
WHEN APPLICABLE
B SHEAR ANCHOR
TOP VIEW DETAIL 9
COVER PLATES
COVER PLATE C
COVER PLATE D
1'-8"
NOTCH
STIFFENER
COVER PLATE A
FIELD PUNCH COVER PLATES
SECTION
PATCH PLATE MK PP2
DETAIL C
SECTION E-E
W.T.C. 214.00
STUDS
REF LINE
TYP EACH FLAT

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] TYPICAL

REQUIRED MATERIAL PER PANEL

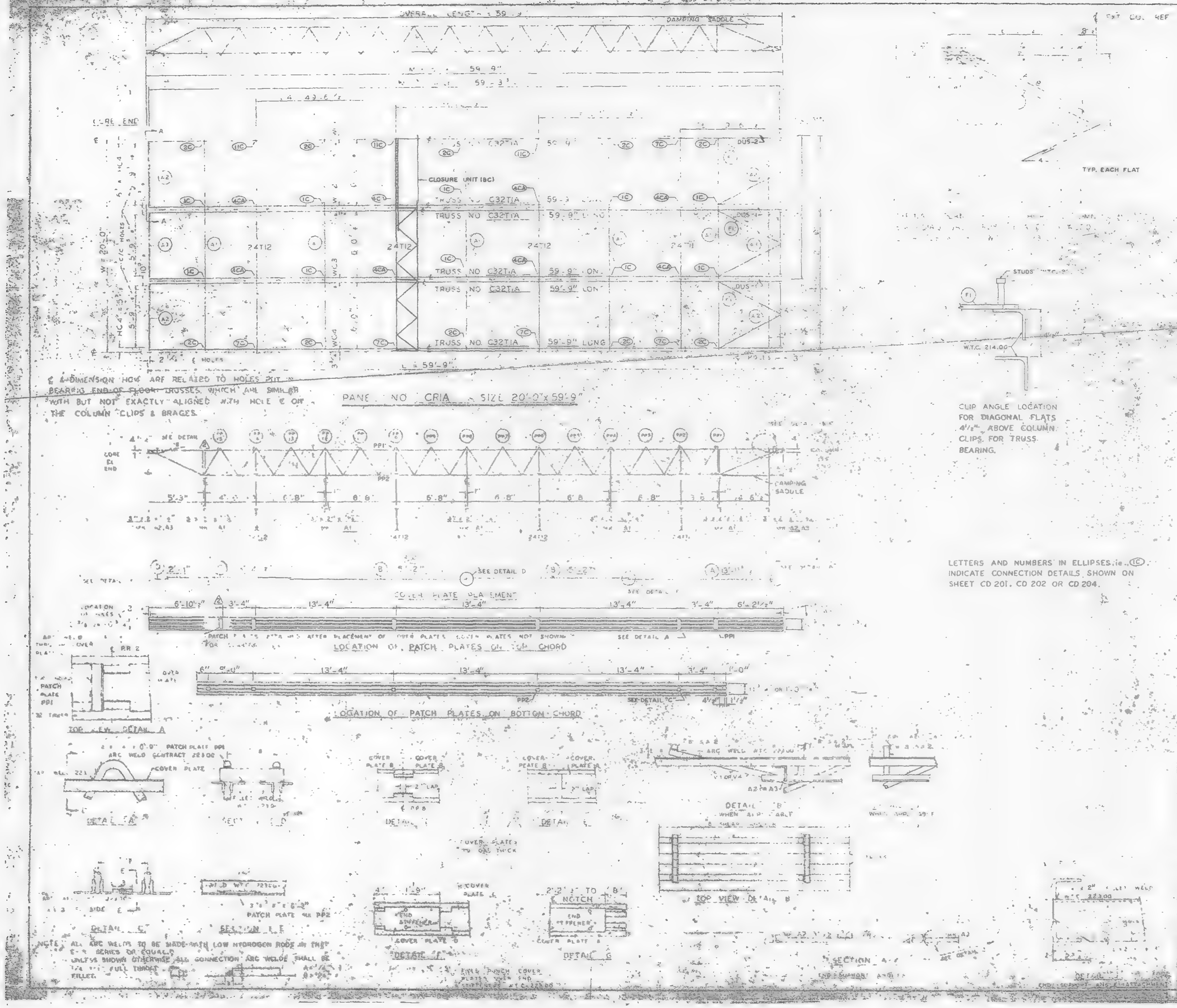
MATERIAL	MK	NO.	SIZE
FLOOR TRUSSES	TIM	[illegible]	[illegible] 58'-3
3 1/2 [illegible] ANGLE	[illegible]	[illegible]	[illegible]
COVER PLATES	A	3	[illegible]
	B	6	[illegible]
	C	3	9" x 0.133 x [illegible]
	D	3	[illegible]
ANGLE CLIPS	C1	21	[illegible]
B. SHEAR ANCHOR	BA2	9	[illegible]
DAMPING SADDLE	DUS1	2	[illegible]
	DUS2	1	[illegible]
CONNECTION BAR	CB1	4	[illegible]
CLOSURE UNIT	BC	3	[illegible] 239 x 8
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x [illegible]
	P2	4	4 1/2" x 30" x [illegible]
	P3	1	[illegible] x 30" x [illegible]

NO.	DATE	
1	6-6-69	AS NOTED

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 72-73 (WEST) ⚠1

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON ILLINOIS
APPROVED FOR FABRICATION
DESIGN DRAWING
APPROVED FOR FABRICATION BY FABRICATOR
DATE 2-24-68
CHECKED


OVERALL LENGTH = 59'-9"
DAMPING SADDLE
59'-9"
59'-3"
CORE END
CLOSURE UNIT (BC)
TRUSS NO. C32T1A 59'-9" LONG
24T12
DUS-1
DUS-2
STUDS
W.T.C. 214.00
TYP. EACH FLAT
L = 59'-9"
2 1/2" ℄ HOLES
CORE ℄ END
PP1
PP2
5'-3"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-2"
DAMPING SADDLE
SEE DETAIL D
SEE DETAIL A
SEE DETAIL "C"
COVER PLATE PLACEMENT
6'-10 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
LOCATION OF PATCH PLATES ON TOP CHORD
6"
13'-4"
13'-4"
13'-4"
3'-4"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE PP1
TOP VIEW DETAIL A
DETAIL "A"
SECTION "D-D"
DETAIL "F"
DETAIL "G"
DETAIL "B"
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
PATCH PLATE PP2
COVER PLATE B
COVER PLATE A
COVER PLATE D
END STIFFENER
NOTCH
SECTION A-A

℄ & DIMENSION HOW ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES, WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ OF THE COLUMN CLIPS & BRACES.

PANEL NO. CRIA SIZE 20'-0" x 59'-9"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUALS.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-8	ST 204
[illegible]	T.1	1	24T [illegible]	BT 2.1
	T.2	1	24T [illegible]	BT 2.2
ANGLE	A1	5	3" x 2" x [illegible] x 19-[illegible]	ST 403
	A2	4	3" x 2" x 1/4" x 5 [illegible]	ST 403
	A3	2	3" x 2" x [illegible] x 5-[illegible]	ST 403
[illegible]	F.	5	[illegible] x 3/4 x 6 [illegible]	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 3' 9	ST 400
	PP2	18	[illegible] x 3-3"	ST 400
COVER PLATES	A	3	9 x 0.35 x [illegible]	ST 303
	B	6	9 x 0.135" x 5-7	[illegible]
	C	3	9 x 0.135 x [illegible] 2' 2	[illegible]
	D	3	9 x 0.135 x 2'-1"	ST 303
ANGLE CLIPS		21	2 [illegible] x [illegible] x [illegible] x 0-6	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS 1	2	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST 290
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3 6 7/8	ST 290
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 4 x 1 1/2" x 1 1/4" x	BT 212
			230 x 8'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1' 0"	ST 400

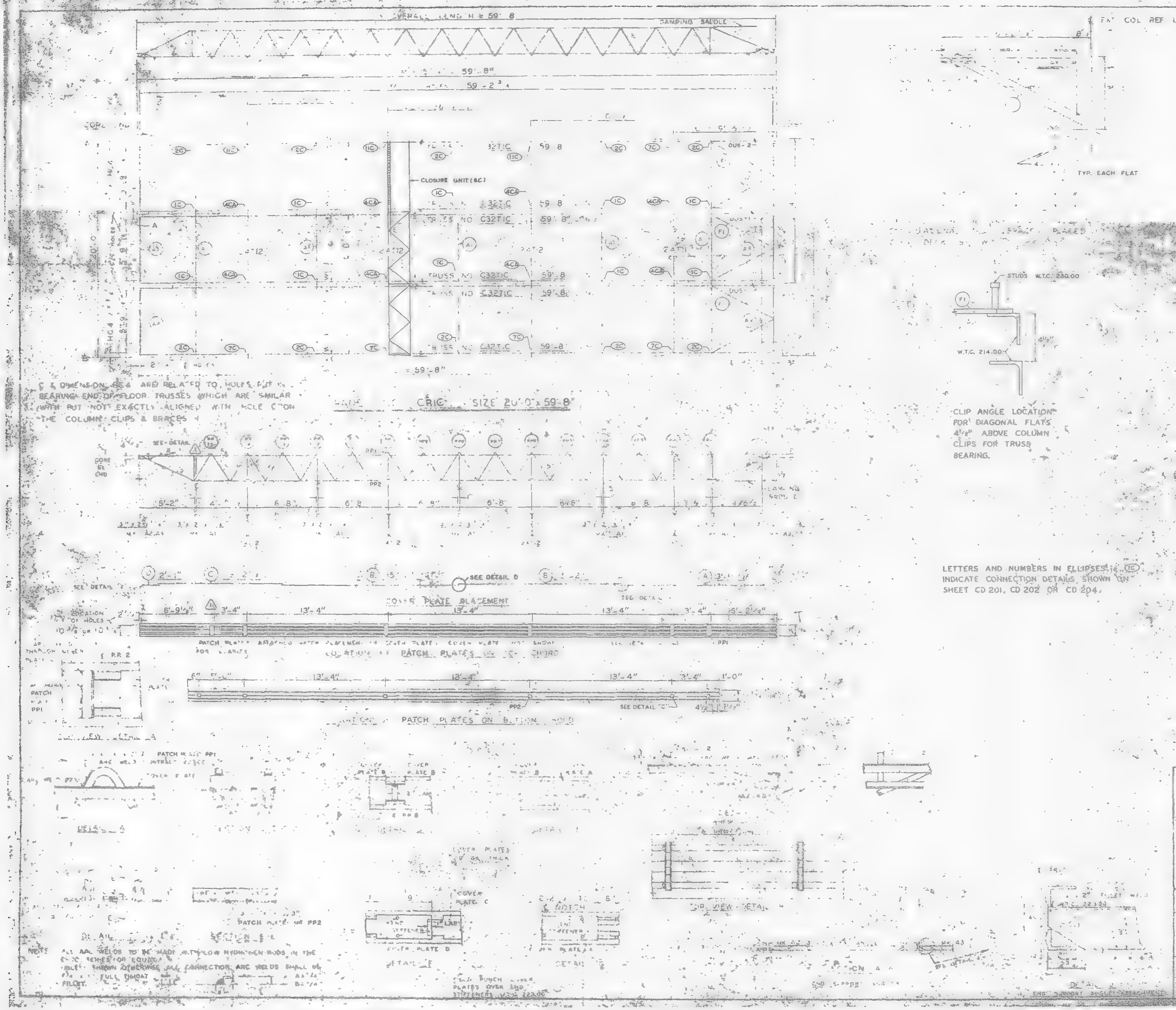
NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.W.

2 REF. DRWS.
- [illegible] AB4-2 10-15-68
- 7 AB4-1 & 6 7-22-68
- 7 AB4-4 7-22-68
- SA-12-4 [illegible]-6-69
- 7-AB3-2 1-3-69
- 7 AB1-2 7-22-68
- 7-AB2-6 & 7 7-22-68
- 7-AB4-42 10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
[illegible]
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible] 14-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68, 69 NORTH
PANEL CRIA [illegible] 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) 2

FABRICATED BY PACIFIC STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8 4-1-68
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]
CHECKED BY [illegible] DATE APRIL 10, 1968
FABRICATION CONT. [illegible] W.T.C. 221 [illegible] CRIA


OVERALL LENGTH = 59'-8"
DAMPING SADDLE
59'-8"
59'-2 3/4
CORE
CLOSURE UNIT (BC)
TRUSS NO. C32T1C
59'-8"
24T12
DUS-2
PANEL CRIC SIZE 20'-0" x 59'-8"
SEE DETAIL
CORE END
PP1
PP2
6'-2"
6'-8"
SEE DETAIL D
COVER PLATE PLACEMENT
LOCATION OF HOLES
6'-9 1/2"
3'-4"
13'-4"
15'-2 1/4"
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
PATCH PLATE PP2
DETAIL
SECTION
TOP VIEW DETAIL
COVER PLATE C
NOTCH
COVER PLATE D
F. COL. REF. LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
F1

℄ & DIMENSION HG4 ARE RELATED TO HOLES FOR BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	1C	6	C32T1C - 59'-8"	ST 210C
BRIDGING TRUSSES	T.1	1	24T12 - 19'-11"	BT 212
	T.2	3	24T12 - 19'-11"	BT 212
3" x 2" x 1/4 ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-3"	ST 400
	PP2	18	3" x 1/4" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2"	ST 304
	D	3	9" x .0135" x 2'-1"	ST 305
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1 1/2" x 1 1/4" x	BT 212
			230 x 8'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
⚠1	6-9-69	AS NOTED	G.D.

⚠1 REF. DRWG

7-AB4-3	10-15-68
7-AB4-15,16 & 39	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB8-2	1-3-68
7-AB1-2	7-22-68
7-AB7-6 & 7	7-22-68
7-AB4-42	10-15-68

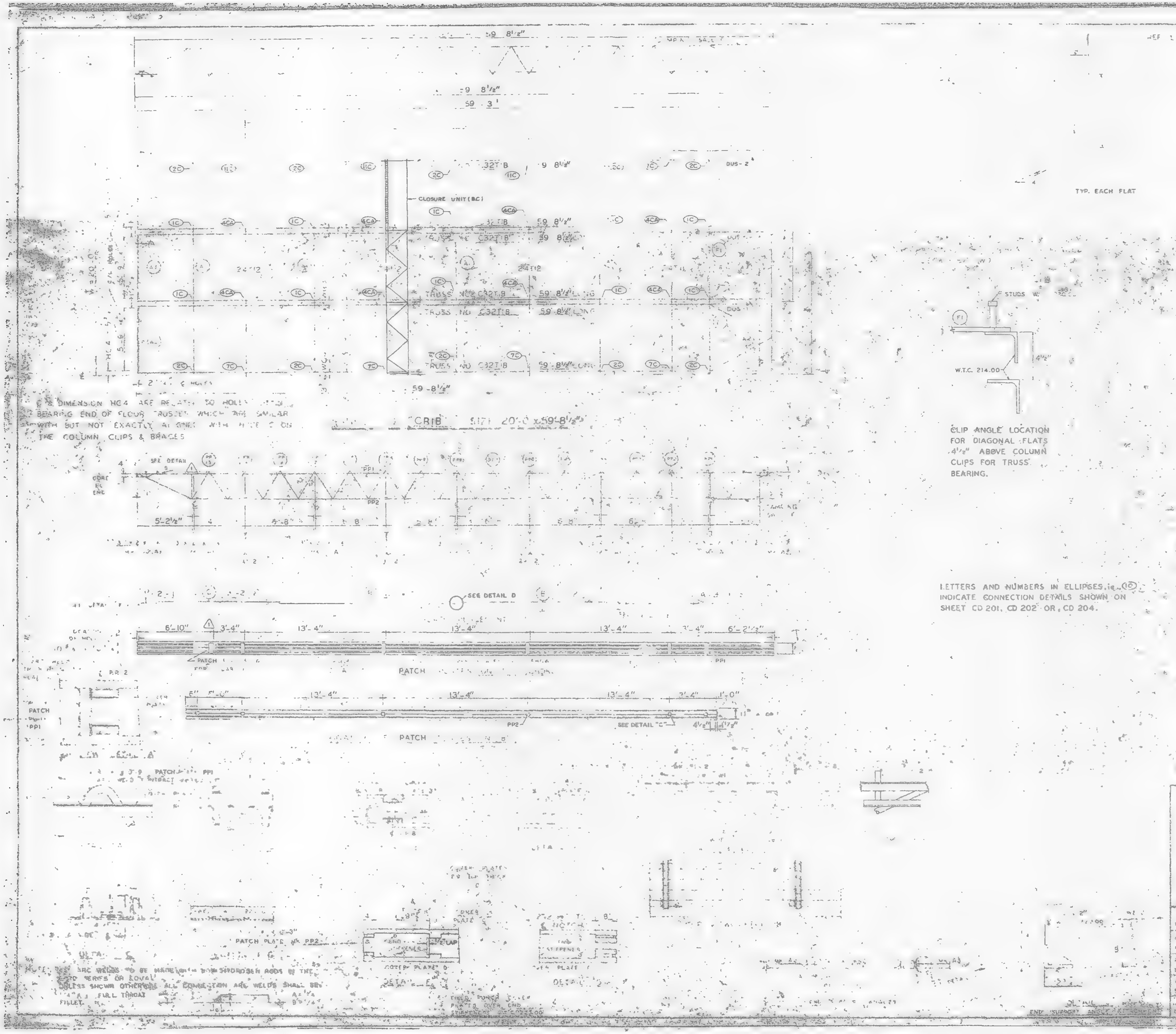
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

B FLOORS 49-58, 60-66, 68-74, 79-91 & 93-106
PANEL CRIC 20'-0" x 59'-8"

BLDG. B FLOORS 49-58, 60-74, 79-91 & 93-106 (EAST) ⚠1

LACLEDE STEEL COMPANY
MADISON, ILLINOIS

APPROVED FOR FABRICATION BY | DATE
DESIGN DRAWING NO. 7 AB3-8
DRAWN BY
DATE OCT. 23, 1968
CHECKED BY
DATE OCT. 23
APPROVED FOR FABRICATION BY | DATE


59'-8½"
59'-3'
32T8 59'-8½"
CLOSURE UNIT (BC)
TRUSS NO. C32T8 59'-8½" LONG
TRUSS NO. C32T8 59'-8½" LONG
TRUSS NO. C32T8 59'-8½" LONG
DUS-2
DUS
24112
59'-8½"
CRIB SIZE 20'-0" x 59'-8½"
5'-2½"
6'-10"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2½"
PATCH
PP1
6" 5'-0" 13'-4" 13'-4" 13'-4" 3'-4" 1'-0"
PP2
SEE DETAIL "C"
4½" 1½"
PATCH
SEE DETAIL D
P.P. 2
PATCH
PP1
PATCH PLATE PP2
COVER PLATE D
STUDS
W.T.C. 214.00
4½"
TYP. EACH FLAT
BLDG. B FLOORS 83-91 & 93-106 (WEST)

DIMENSION HC4 ARE RELATED TO HOLES ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	REQ	SIZE	
		8	... 8 - 59'-8½"	ST208
		1	... 6	ST211
		3	24T ... 19' ...	ST212
	A1	5	3 x 2 x ¼ x 15'-1"	ST 403
	A2	4	3 x 2 x ¼ x 5'-11 ⅜	ST 403
			[illegible]	ST 403
			... 8 8	ST 402
PATCH PLATES	PP1	18	... 9	ST 400
	PP2	18	... 3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-... ½	ST 303
	B	6	9" x .0135" x 15'-2	ST 303
	C	3	9" x .0135" x 13'-2 ½	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1½" x ⅞" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS 1	2	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
	DUS 2	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1½" x 1¼" x	ST 212
			230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

... AB4-2	10-15-68
... 15,16	7-22-68
... 41	7-22-68
SA ... 24	1-6-69
... AB3-2	1-3-68
... AB3-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

83-91 & 93-106 (N)

PANEL CR... 59'-8½"

BLDG. B FLOORS 83-91 & 93-106 (WEST)

... STEEL COMPANY

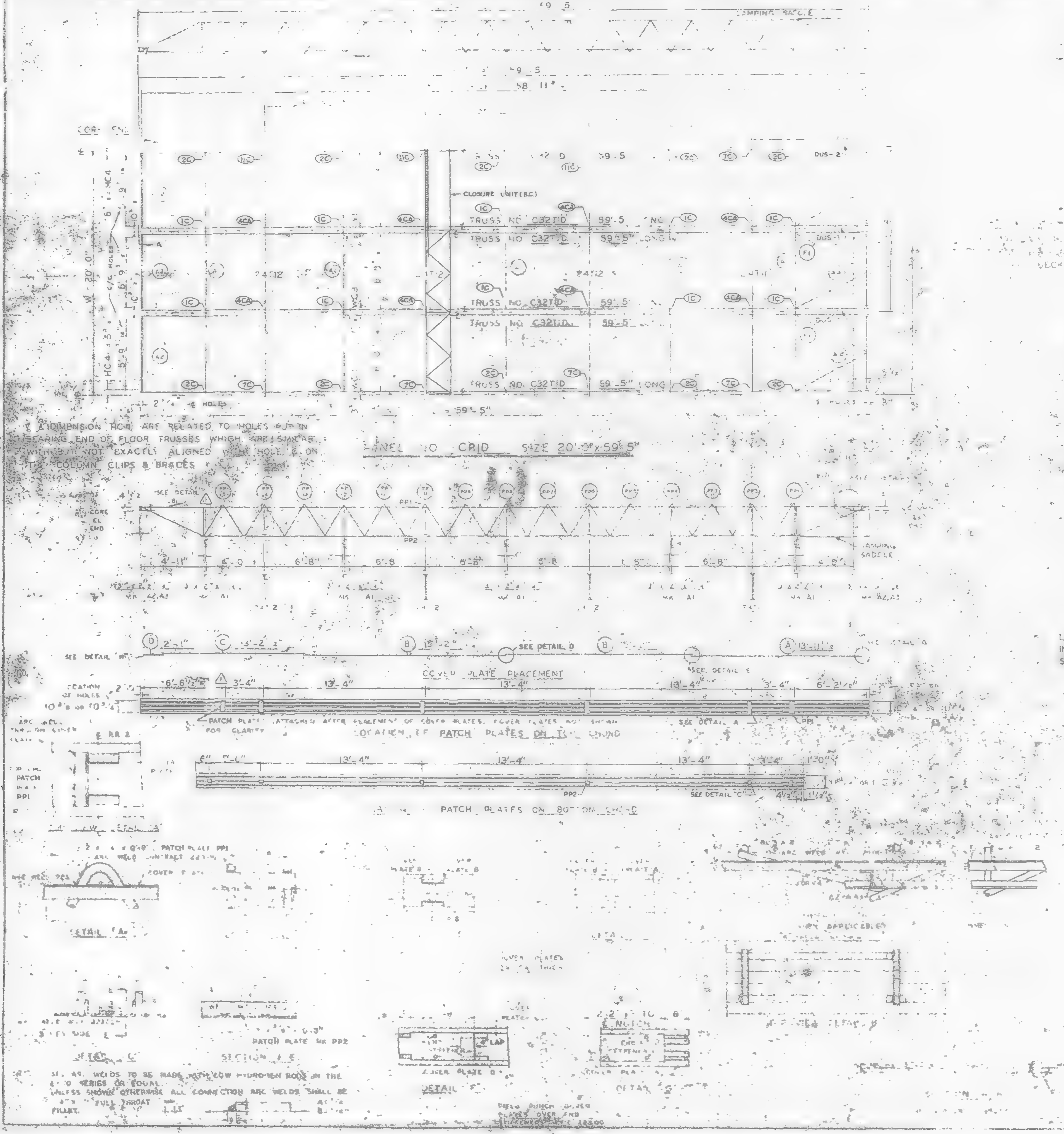
MADISON, ILLINOIS

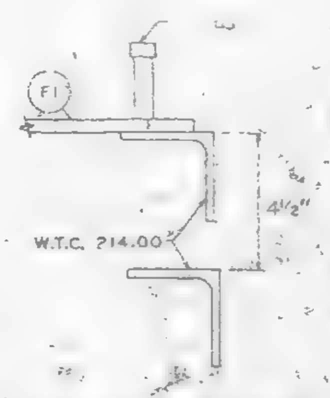
DESIGN DRAWING NO. 7-AB3-8

DRAWN BY ... DATE OCT 23

CHECKED BY ... DATE OCT 23

DETAILED ...


PANEL NO. CRID SIZE 20'-0" x 59'-5"
TRUSS NO. C32T1D
59'-5" LONG
CLOSURE UNIT (BC)
DUS-2
DUS-1
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
SEE DETAIL "A"
DAMPING SADDLE
DETAIL "A"
SECTION A-A
DETAIL "E"
PATCH PLATE MK PP2
DIMENSIONS MARKED ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLES ON THE COLUMN CLIPS & BRACES
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.


F1
W.T.C. 214.00
4½"

TYP. EACH FLAT

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES (i.e. 1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	D	6	32T.D - 59'-5"	ST201D
[illegible]		1	24T [illegible] 9'-11"	ST2[illegible]
	T2	3	24T2 - 19'-11"	ST212
ANGLE	A1	5	3"x2"x¼ x 9'-1"	ST 403
	A2	4	3"x2"x¼ x 5-11⅝	ST 403
	A3	2	[illegible]x2"x¼ [illegible]	ST 403
[illegible]	F	5	[illegible] x 5-8"	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0'-9	ST 400
	PP2	18	[illegible] x 0-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13-[illegible]½	ST303
	B	6	9" x .0135" x [illegible]	ST303
	C	3	9" x .0135" x 13'-2½"	ST303
	D	3	9" x .0135 x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x0-6	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3½"x3½"x⅜"x3'-8⅞"	[illegible]
	DUS2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible]	[illegible]
CLOSURE UNIT	BC	3	[illegible]	[illegible]
			.230 x 0'-8½"	
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-[illegible]	[illegible]
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .36" x 1'-0"	ST 400

⚠1	6-9-69	AS NOTED	[illegible]
NO.	DATE	REVISION	BY

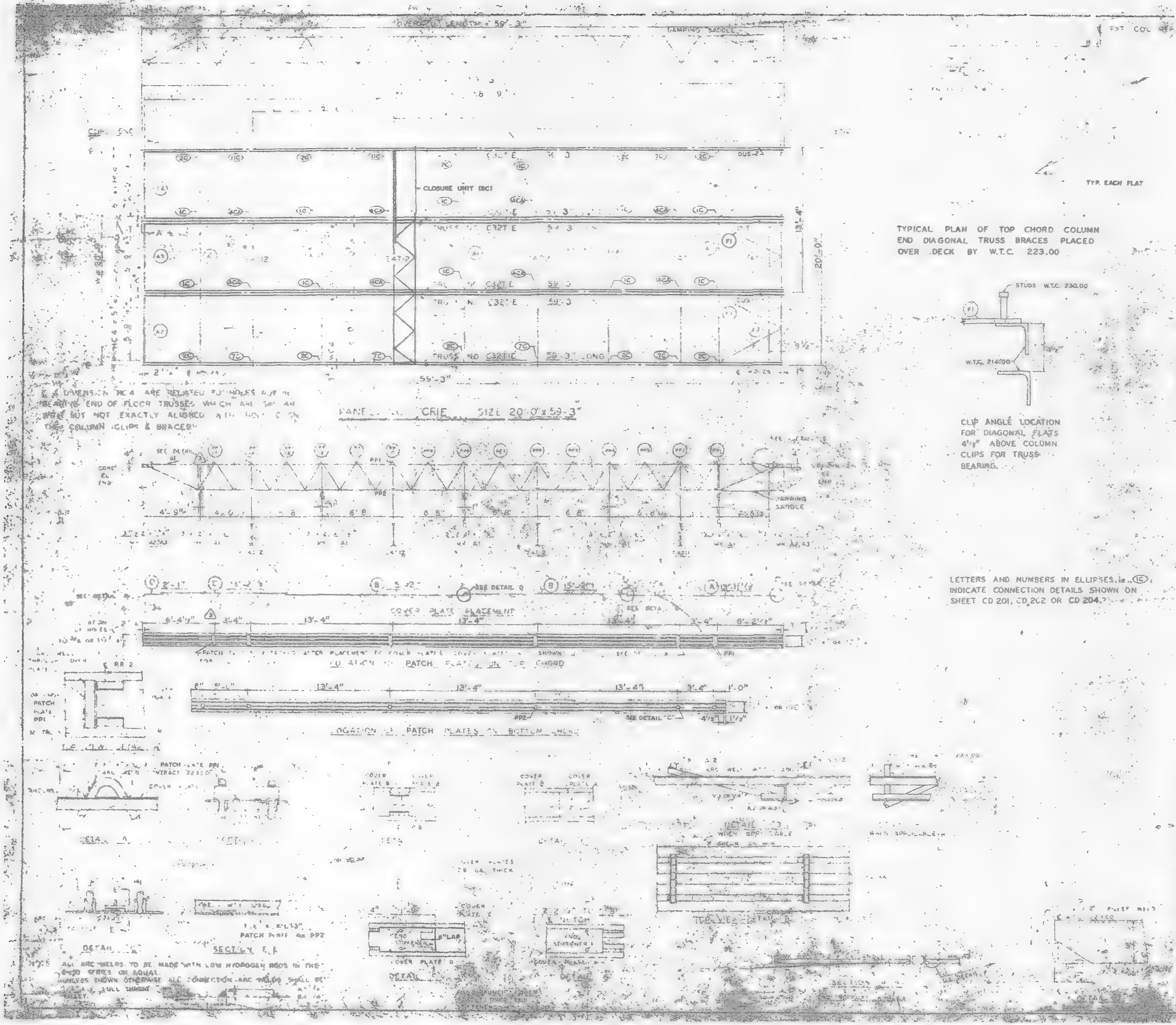
⚠1 REF DRWGS

7-AB4-[illegible]	10-15-68
[illegible] AB4 15,16 & 39	7-[illegible]-68
7-AB4-4	7-22-68
SA-[illegible]	[illegible]-6-69
[illegible] AB3-[illegible]	[illegible]-68
[illegible] AB1	7-22-68
7-AB2-6 & 7	7-22-68
[illegible] AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)
PANEL CRID 20'-0"
BLDG. B FLOORS 81-82 (WEST) ⚠1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE OCT. 23, 1968
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
CHECKED BY [illegible] DATE OCT. 23, 1968
DETAILED BY [illegible]
FABRICATION [illegible]


OVERALL LENGTH = 59'-3"
DAMPING SADDLE
CLOSURE UNIT (BC)
TRUSS NO. C32T E 59'-3"
TRUSS NO. C32T E 59'-3" LONG
20'-0"
13'-4"
59'-3"
PANEL ... CRIE SIZE 20'-0" x 59'-3"
SEE DETAIL
PP1
PP2
DAMPING SADDLE
4'-9"
6'-8"
SEE DETAIL "D"
COVER PLATE PLACEMENT
6'-4½"
3'-4"
13'-4"
6'-2½"
LOCATION OF PATCH PLATES ON TOP CHORD
5'-4"
1'-0"
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE PP1
DETAIL A
COVER PLATE B
COVER PLATE A
DETAIL B
TOP VIEW – DETAIL B
COVER PLATES 10 GA. THICK
PATCH PLATE ... PP2
SECTION E-E
DETAIL
COVER PLATE D
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
4½"
F1

¢ & DIMENSION RC4 ARE RELATED TO HOLES FOR IN BEARING END OF FLOOR TRUSSES WHICH ARE SHOWN BUT NOT EXACTLY ALIGNED ... COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. ⓘⓒ, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTES: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ... FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				[illegible]
MATERIAL	MK	[illegible]	[illegible]	[illegible]
FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3	[illegible]	[illegible]
[illegible] ANGLE	A1	3	[illegible]	ST 400
	A2	[illegible]	[illegible]	ST 400
	[illegible]	[illegible]	[illegible]	ST 400
[illegible]	[illegible]	8	[illegible]	ST 400
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
[illegible] PLATES	A	3	[illegible]	[illegible]
	B	6	9 × .335 × 5'-2"	[illegible]
	C	3	[illegible]	[illegible]
	D	3	9 × [illegible] × 2'-1"	[illegible]
ANGLE CLIPS	[illegible]	21	[illegible]	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR × 0'-8"	ST 400
DAMPING SADDLE	[illegible]	[illegible]	[illegible]	ST 208
	DUS-2	1	[illegible]	ST 208
CONNECTION BAR	CB1	4	[illegible] × 1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	ST 216
			230 × 5-6½"	CD 204
CONNECTION PLATES	P1	5	3½" × [illegible] × 0'-8½"	ST 400
	P2	4	4½" × .38" × 0'-9"	ST 400
	P3	1	4½" × .38" × 1'-0"	ST 400

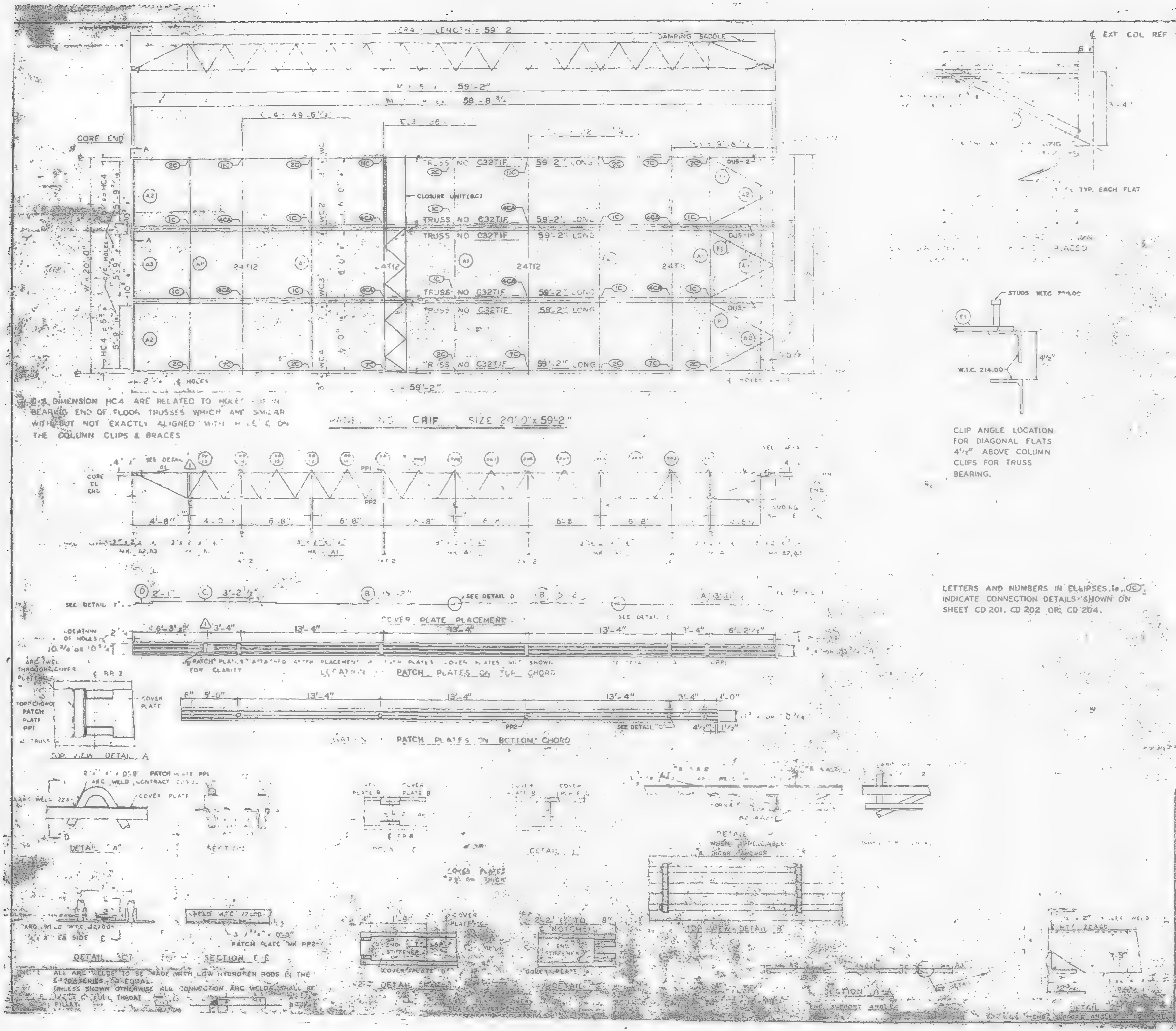
NO.	DATE	REVISION
3	8-9-69	AS NOTED
2	10-16-68	MAT'L LIST
1	7-17-68	GENERAL

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

10-11 (SOUTH)

PANEL CRIE

FABRICATED BY LA CLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
DATE
SHOP DRAWING NO.
1955
CHECKED
DATE



TRUSS LENGTH = 59'-2"
DAMPING SADDLE
59'-2"
58'-8 3/4"
49'-6"
CORE END
TRUSS NO C32T1F 59'-2" LONG
CLOSURE UNIT (B.C.)
24T12
24T11
DUS-2
DUS-1
59'-2"
PANEL NO CRIF SIZE 20'-0" x 59'-2"
SEE DETAIL
CORE EL END
PP1
PP2
4'-8"
6'-8"
COVER PLATE PLACEMENT
13'-4"
3'-4"
6'-3"
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL A
DETAIL "A"
DETAIL "C"
SECTION E-E
PATCH PLATE MK PP2
TOP VIEW DETAIL B
SECTION A-A
EXT COL REF LINE
TYP. EACH FLAT
STUDS W.T.C. 220.00
W.T.C. 214.00
4 1/2"

HC4 DIMENSION HC4 ARE RELATED TO HOLES IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	6	C32T1F - 59'-2"	ST201F
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x 9'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16	ST 403
	A3	2	3"x2"x1/4"x 5'-11 7/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x .4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9"x .0135" x 13'-8 1/2"	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 19'-2 1/2"	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
7/8" SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	[illegible]
	DUS 2	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	[illegible]
CONNECTION BAR	CB1	4	1 7/8" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠ 1 1/2" x 1 1/4" x	BT212
			230 x 5'-6 1/8"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

LETTERS AND NUMBERS IN ELLIPSES, ie.. ⓘⒸ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

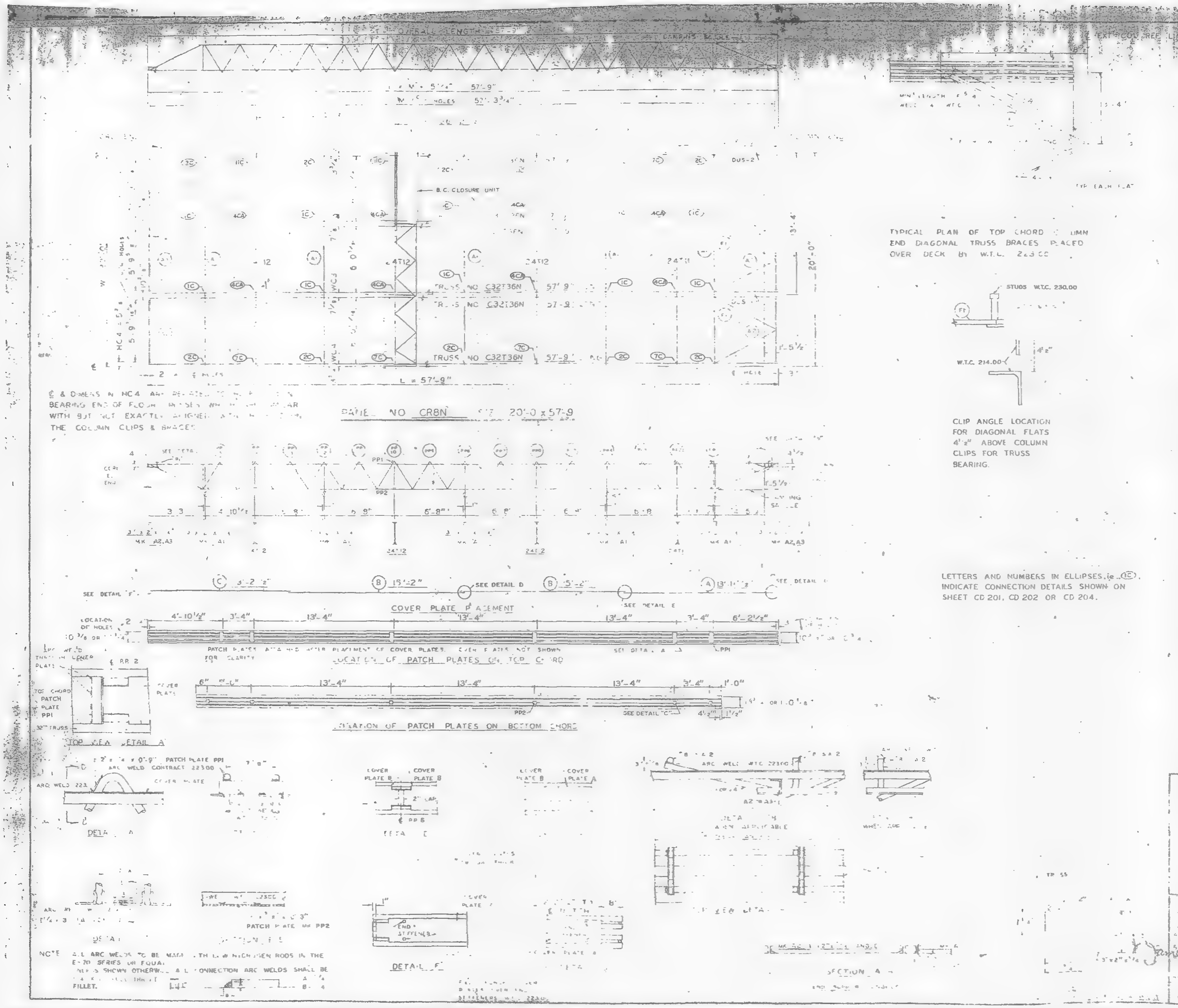
NO.	DATE	REVISION
1	6-9-69	AS NOTED

1 REF. DWG.
7-AB4-3
7-AB4 15,16,&39
7-AB4 41
SA 124
7-AB3-2
7-AB1-2
7-22
7-22
7 AB4-42

[illegible] PANEL DETAILS
FOR
[illegible] TRADE CENTER - N.Y.C.
FOR
THE [illegible] NEW YORK AUTHORITY

BLDG. A FLOORS 47-48 (S) 47-48, 70-71 (N)
PANEL CRIF 20'
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE OCT. 23, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]
CHECKED BY TMC DATE OCT. 23


OVERALL LENGTH 57'-9"
57'-9"
57'-3¾"
EXT. CONCRETE LINE
B.C. CLOSURE UNIT
DUS-2
TRUSS NO C32T36N 57'-9"
TRUSS NO C32T36N 57'-9"
TRUSS NO C32T36N 57'-9"
4T12
24T12
20'-0"
1'-5½"
L = 57'-9"
STUDS W.T.C. 230.00
W.T.C. 214.00
SEE DETAIL "F"
(C) 13'-2½"
(B) 15'-2"
SEE DETAIL D
(B) 15'-2"
SEE DETAIL E
(A) 13'-1½"
SEE DETAIL
COVER PLATE PLACEMENT
4'-10½"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. EVEN PLATES NOT SHOWN FOR CLARITY
SEE DETAIL A
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
6"
13'-4"
13'-4"
13'-4"
3'-4"
1'-0"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
PATCH PLATE PP1
ARC WELD CONTRACT 22300
COVER PLATE
DETAIL A
COVER PLATE B
COVER PLATE B
PP B
DETAIL C
COVER PLATE B
COVER PLATE A
ARC WELD W.T.C. 223.00
AZ & A3
WHERE APPLICABLE
PATCH PLATE ON PP2
DETAIL D
END STIFFENER
DETAIL F
SECTION A-A

PANEL NO CR8N SIZE 20'-0 x 57'-9

℄ & DIMENS IN HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES

TYPICAL PLAN OF TOP CHORD @ COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL ... SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ... FILLET.

REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES				
BRIDGING TRUSSES	T1	[illegible]	24" - 8' [illegible]	BT211
	T2	3	24" 2 19'-11"	BT212
3 x 2" x ¼" ANGLE	A1	5	3"x2"x¼"x19'-1	ST 403
	A2	4	3 x 2 x ¼ x 5'-11	ST 403
	A	2	[illegible] x 5 [illegible]	ST 403
[illegible]	F	5	[illegible] 5-8	ST 402
PATCH PLATES	PP	8	[illegible] 9	ST 400
	PP	8	[illegible]	ST 400
COVER PLATE		3	[illegible]	ST 303
		[illegible]	[illegible]	ST 303
	C	3	9 x .0135"x13'-2½	ST303
ANGLE CLIPS		21	2 x ½ x ¼ x 0-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#6 REBAR x 0'-9"	ST 400
DAMPING SADDLE	[illegible]	2	3 x 3'2 x ⅜ x 3'-6⅞	ST298
	[illegible]	[illegible]	[illegible] 2 x ⅜ x 3' 6⅞	ST298
CONNECTION BAR	CBL	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT ⚠	BC	3	1¼" D TUBE x 6'-6½"	BT212 CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

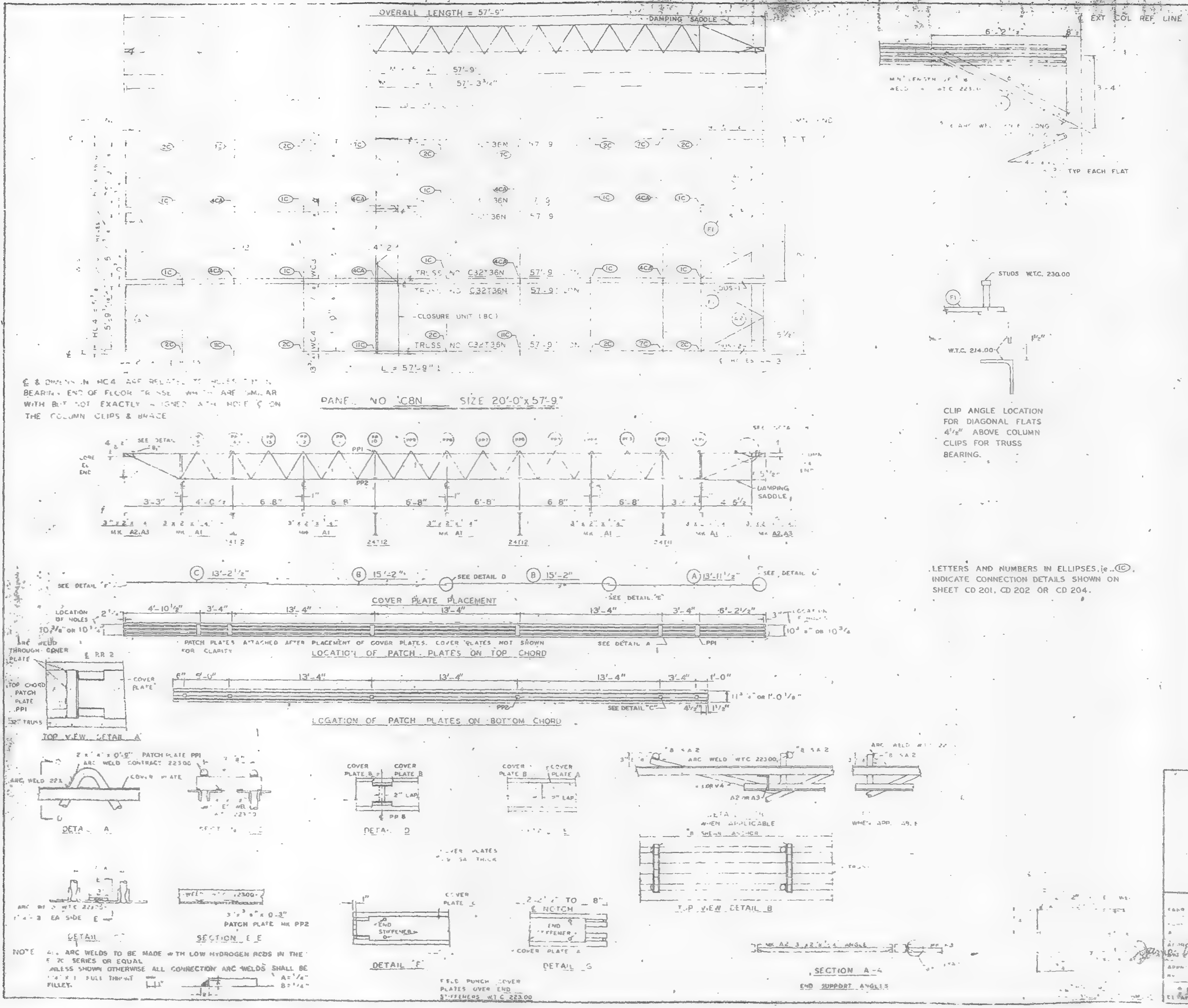
NO	DATE	REVISION	BY
⚠1	4-24-69	AS NOTED	GDC

7-AB4-19 12-20-68
10-15-68
7-22-68
7-22-68
1-6-69
57 1-6-69
32 1-6-69
7-22-68
42 10-15-68

CR8N 7-9

James White 6/12/69

DRAWING NO
7 3 57
PLATE
DRAWN BY
DATE MARCH 31, 1969
CHECKED BY T.M. CHURA
DATE MARCH 31, 1969
IN CHARGE OF
FAB ATION CONT. NO 221
SHEET NO FP CR8N



OVERALL LENGTH = 57'-9"
DAMPING SADDLE
57'-9"
57'-3¾"
TRUSS NO C32T36N
57'-9"
CLOSURE UNIT (BC)
L = 57'-9"
HC4
WC4
DUS-1
EXT. COL. REF. LINE
6'-2½"
3'-4"
TYP EACH FLAT
STUDS W.T.C. 230.00
F1
W.T.C. 214.00
SEE DETAIL "B"
PP1
PP2
DAMPING SADDLE
3'-3"
6'-8"
MK A2, A3
MK A1
24T12
24T11
C 13'-2½"
B 15'-2"
B 15'-2"
A 13'-11½"
SEE DETAIL D
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL G
COVER PLATE PLACEMENT
LOCATION OF HOLES
4'-10½"
3'-4"
13'-4"
6'-2½"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE PP1
COVER PLATE
TOP VIEW DETAIL A
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE PP1
ARC WELD CONTRACT 223.00
COVER PLATE
DETAIL A
COVER PLATE B
COVER PLATE B
2" LAP
PP 8
DETAIL D
ARC WELD W.T.C. 223.00
A2 OR A3
WHEN APPLICABLE
#8 SHEAR ANCHOR
TOP VIEW DETAIL B
3"x⅜"x 0-3"
PATCH PLATE MK PP2
EA SIDE
DETAIL
SECTION E E
END STIFFENER
DETAIL "F"
E NOTCH
COVER PLATE A
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
MK A2 3"x2"x¼" ANGLE
SECTION A-A
END SUPPORT ANGLES

℄ & DIMENS. ON HC4 ARE RELATED TO HOLES ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACE

PANEL NO C8N SIZE 20'-0"x57'-9"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (IC), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼" x 1 FULL THROAT FILLET. A=¼" B=¼"

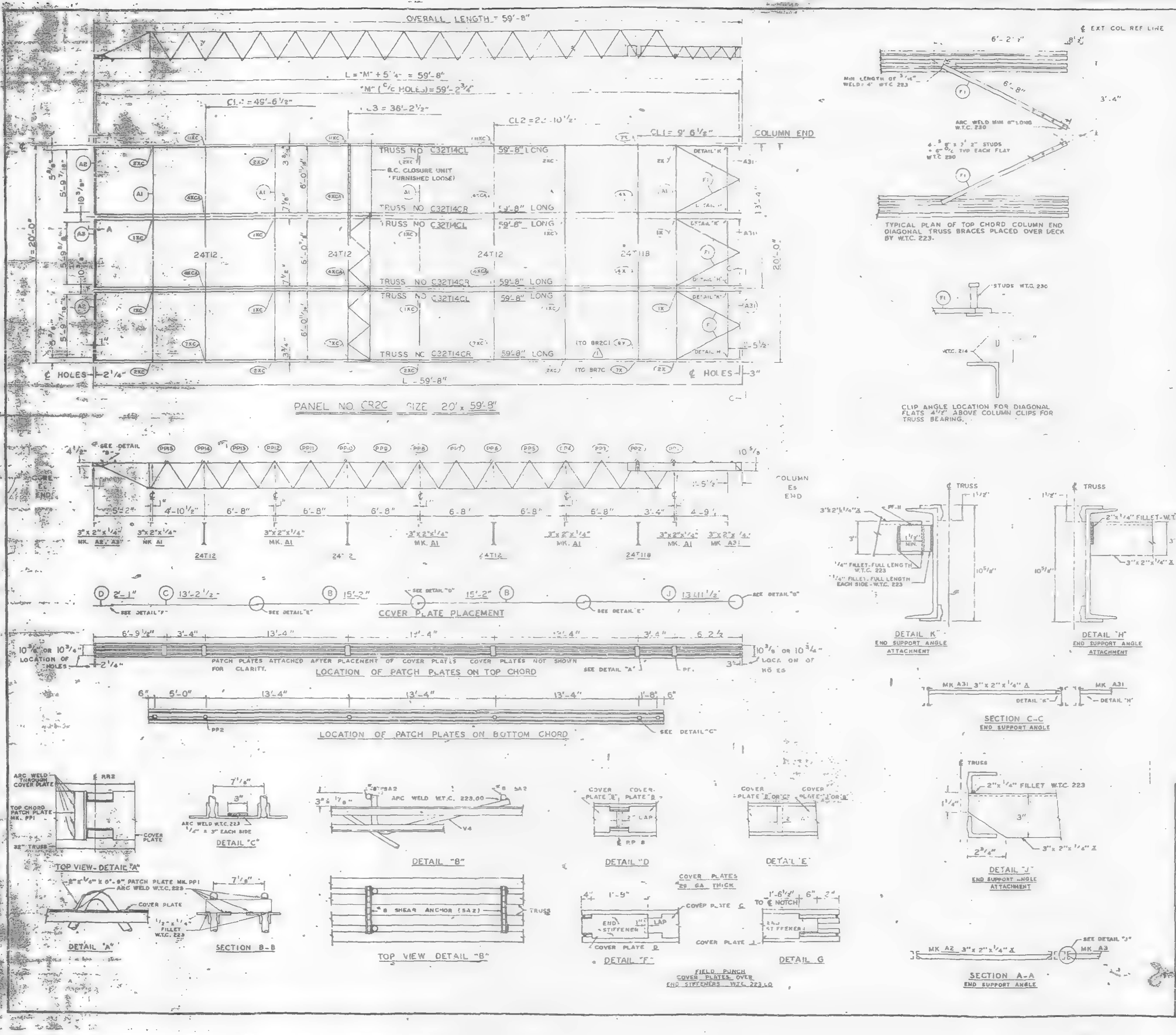
REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T36N	6	[illegible] 9"	ST 236
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT 211
	T12	3	24T12 - 19'-11"	BT 212
3"x2"x¼" ANGLE	A1	5	3"x2"x¼" x 19'-11"	ST 403
	A2	4	3"x2"x¼"x 5'-11 9/16	ST 403
	A3	2	3"x2"x¼"x 5'-11¾"	ST 403
DIAGONAL FLATS	F	[illegible]	1½" x ⅜" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x¼"x 0'-9	ST 400
	PP2	18	[illegible] x ⅜" x [illegible]	ST 400
COVER PLATES			[illegible]	ST 303
			[illegible]	[illegible]
	C	3	3' x .0135"x 13'-2½"	ST 303
ANGLE CLIPS	C	21	2"x ½"x ¼"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3"x 3½"x ⅜"x 3'-6⅞"	ST 298
	DUS-2	1	[illegible] x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1 Ø x 1'-3"	ST 400
CLOSURE UNIT ⚠1	BC	3	1¼" O TUBE x 6'-6½"	BT 212
				CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	4-24-69	AS NOTED	G.D.

REF. DWGS.
7-AB4-19	12-20-68
7-AB4-11	10-15-68
7-AB4-5 & 6	7-22-68
7-AB4-41	7-22-68
SA 124	1-6-69
7-AB3-56	1-6-69
7-AB1-32	1-6-69
7-AB2-1 & 7	7-22-68
7-AB4-42	10-15-68

C
AUTHORITY
44 (SOUTH END)
C8N 20'-0" x 57'-9"

COMPANY
DESIGN DRAWING NO
7-593 56
PLATE 1
DRAWN BY
DATE MARCH 31, 1969
CHECKED BY T.M. CHURA
DATE MARCH 31, 1969
IN CHARGE OF PROD. DEV.
DATE 6/11/69
FABRICATION CONT. NO.
W.T.C. 221
SHEET NO.
FP C8N


OVERALL LENGTH = 59'-8"
L = "M" + 5 1/4" = 59'-8"
"M" (C/C HOLES) = 59'-2 3/4"
CL4 = 49'-6 1/8"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/8"
COLUMN END
TRUSS NO C32T14CL 59'-8" LONG
B.C. CLOSURE UNIT (FURNISHED LOOSE)
TRUSS NO C32T14CR 59'-8" LONG
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
TRUSS NO C32T14CL 59'-8" LONG
TRUSS NO C32T14CR 59'-8" LONG
24T12
24T12
24T12
24T118
W = 20'-0"
20'-0"
13'-4"
DETAIL "K"
DETAIL "H"
℄ HOLES 2 1/4"
℄ HOLES 3"
L - 59'-8"
PANEL NO CR2C SIZE 20' x 59'-8"
SEE DETAIL "B"
COLUMN END
5'-2"
4'-10 1/2"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A1
3"x2"x1/4" MK A31
24T12
24T12
24T12
24T118
D 2'-1"
C 13'-2 1/2"
B 15'-2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-9 1/2"
3'-4"
13'-4"
13'-4"
13'-4"
3'-4"
6'-2 1/2"
10 3/8" or 10 3/4" LOCATION OF HOLES
2 1/4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
PF
10 3/8" or 10 3/4" LOCATION OF HOLES
6"
5'-0"
13'-4"
13'-4"
13'-4"
1'-8"
6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
6'-2 1/2"
℄ EXT COL REF LINE
MIN LENGTH OF 3/16" WELD: 4" W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN 6" LONG W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/8" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
TRUSS
1/4" FILLET-FULL LENGTH W.T.C. 223
1/4" FILLET-FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
TRUSS
2"x1/4" FILLET-W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
DETAIL "K"
MK A31
DETAIL "H"
SECTION C-C END SUPPORT ANGLE
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
2"x5/16" x 0'-9" PATCH PLATE MK PP1 ARC WELD W.T.C. 223
COVER PLATE
DETAIL "A"
7 1/8"
1/4" FILLET W.T.C. 223
SECTION B-B
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
COVER PLATE "B"
LAP
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #29 GA THICK
1'-9"
END STIFFENER
LAP
COVER PLATE C
COVER PLATE
COVER PLATE D
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223 LO
TO ℄ NOTCH
END STIFFENER
DETAIL G
TRUSS
2"x1/4" FILLET W.T.C. 223
3"
2 3/4"
3"x2"x1/4" ∠
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
SEE DETAIL "J"
MK A3
SECTION A-A END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2119
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	[illegible] 6'-6 1/2" TUBE	BT 212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	[illegible]	3"x2"x1/4"x5'-11 3/4"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF	[illegible]	[illegible] x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP	6	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB.	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

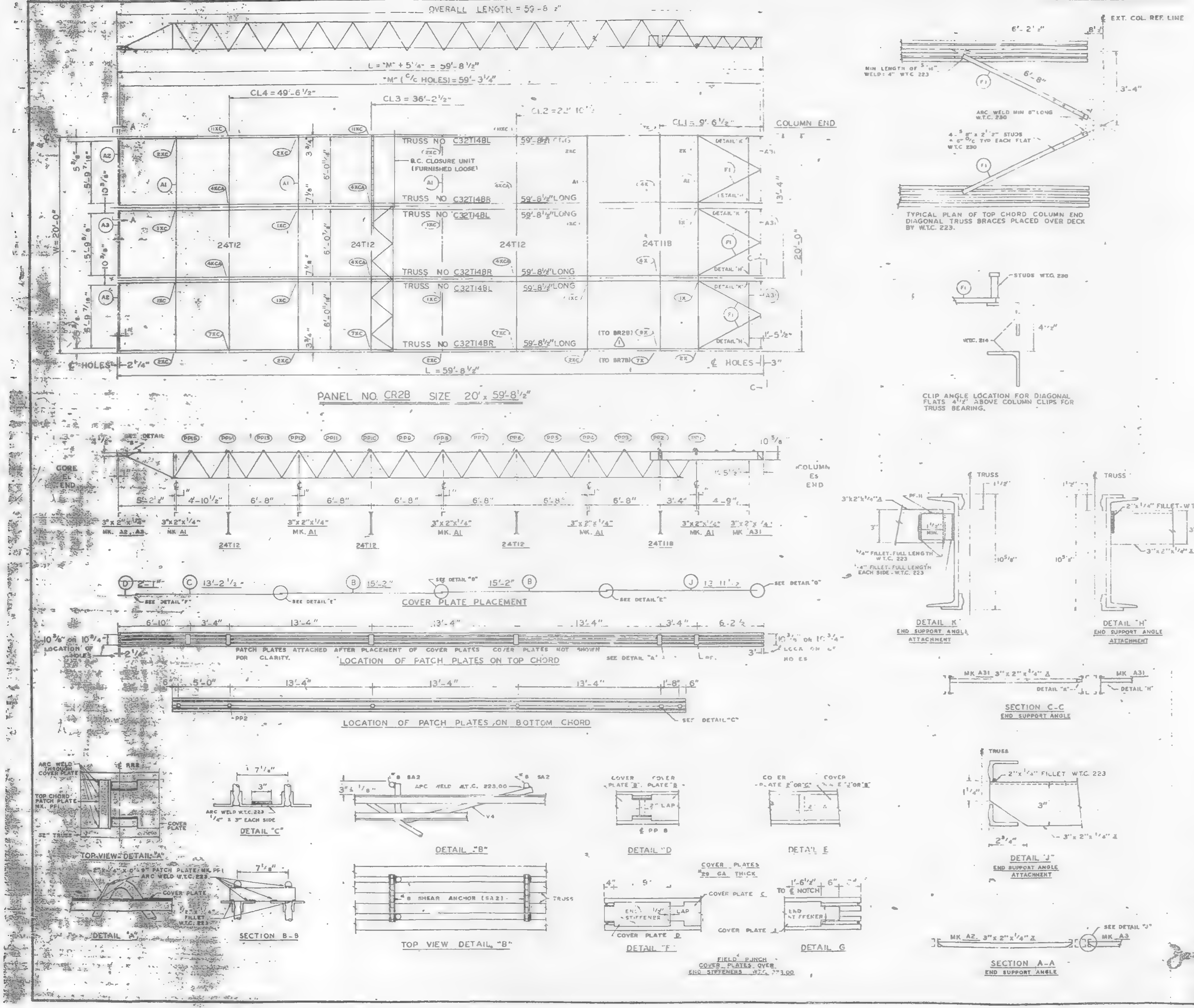
NO.	DATE	REVISION
1	5-12-69	AS NOTED

REF DRWG.		
	7-AB3-29	10-4-6
	7-AB4-28	7-22-6
	7-AB1-13	10-4-6
	7-AB2-7	7-22-6
	7-AB2-15	10-4-6

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

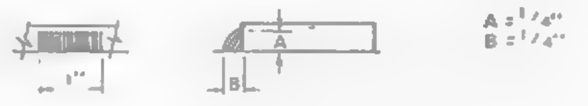
BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL CR2C - 20' x 59'-
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-29	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 6/6/69	DRAWN BY Turk DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHUBA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT NO W.T.C. 221	SHEET NO FP CR2C


OVERALL LENGTH = 59'-8 1/2"
L = "M" + 5 1/4" = 59'-8 1/2"
"M" (C/C HOLES) = 59'-3 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO C32T14BL
TRUSS NO C32T14BR
59'-8 1/2" LONG
B.C. CLOSURE UNIT (FURNISHED LOOSE)
24T12
24T11B
W = 20'-0"
20'-0"
13'-4"
1'-5 1/2"
℄ HOLES
2 1/4"
3"
L = 59'-8 1/2"
DETAIL "K"
DETAIL "H"
(TO BR2B)
(TO BR7B)
A1
A2
A3
A31
F1
PANEL NO. CR2B SIZE 20' x 59'-8 1/2"
SEE DETAIL "B"
CORE END
COLUMN END
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
10 5/8"
5'-2 1/2"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
COVER PLATE PLACEMENT
D 2'-1"
C 13'-2 1/2"
B 15'-2"
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
6'-10"
13'-4"
6'-2 1/2"
10 5/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "A"
5'-0"
1'-8"
6"
PP2
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
ARC WELD THROUGH COVER PLATE
℄ RR2
TOP CHORD PATCH PLATE MK. PF1
COVER PLATE
TOP VIEW - DETAIL "A"
2"x1/4"x0'-9" PATCH PLATE MK. PF1
ARC WELD W.T.C. 223
1/2"x1/4" FILLET W.T.C. 223
DETAIL "A"
7 1/8"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SECTION B-B
#8 SA2
ARC WELD W.T.C. 223.00
3" ± 1/8"
V4
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
2" LAP
℄ PP 8
DETAIL "D"
COVER PLATE "E" OR "C"
DETAIL E
COVER PLATES #29 GA THICK
END STIFFENER
1/2" LAP
COVER PLATE C
COVER PLATE D
DETAIL "F"
1'-6 1/2" TO ℄ NOTCH
COVER PLATE J
DETAIL G
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
MIN LENGTH OF 5/16" WELD: 4" W.T.C. 223
6'-8"
3'-4"
ARC WELD MIN 8" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ TRUSS
3"x2"x1/4" ∠
PF-11
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL K
END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C
END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
1 1/4"
2 3/4"
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
MK A3
SEE DETAIL "J"
SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14BL	3	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	3	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1/4" □ 6'-6 1/2" TUBE	BT 212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	1	3"x2"x1/4"x5'-11 3/4"	ST 403
	A3	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF11	3	3"x1/4"x0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	18	2"x1/4"x0'-9"	ST 400
	PP2	18	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	6	9"x.0135"x15'-2"	ST 303
	C	3	9"x.0135"x13'-2 1/2"	ST 303
	D	3	9"x.0135"x2'-1"	ST 303
	J	3	9"x.0135"x13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x3/8"x0'-6 1/2"	ST 400
	P2	4	4 1/2"x.39"x0'-9"	ST 400
	P3	1	4 1/2"x.39"x1'-0"	ST 400
	P9	6	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.



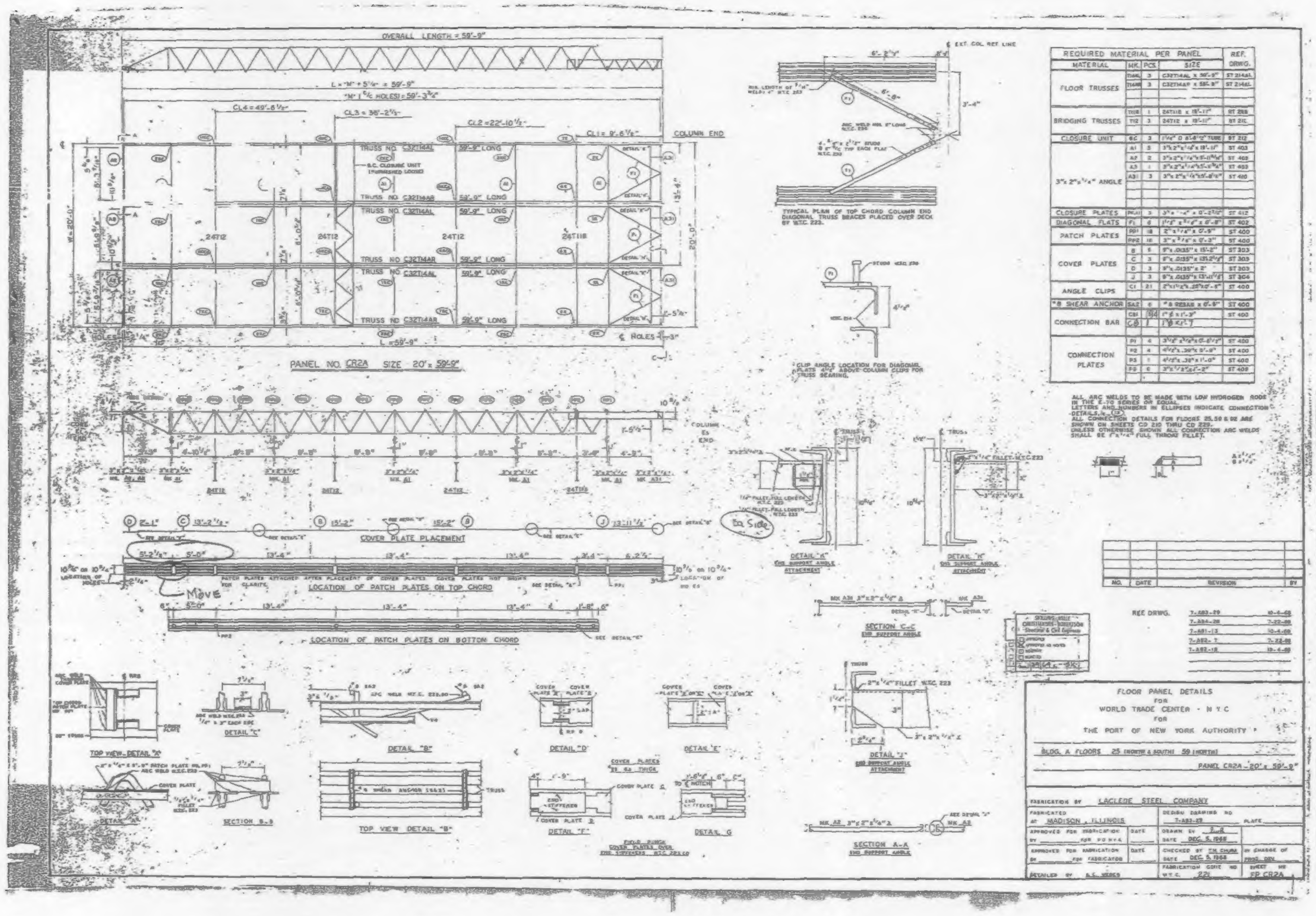
NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	GDC

REF DRWG.		
	7-AB3-29	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL CR2B - 20' x 59'-8 1/2"
BLDG. B FLOORS 92 (WEST)

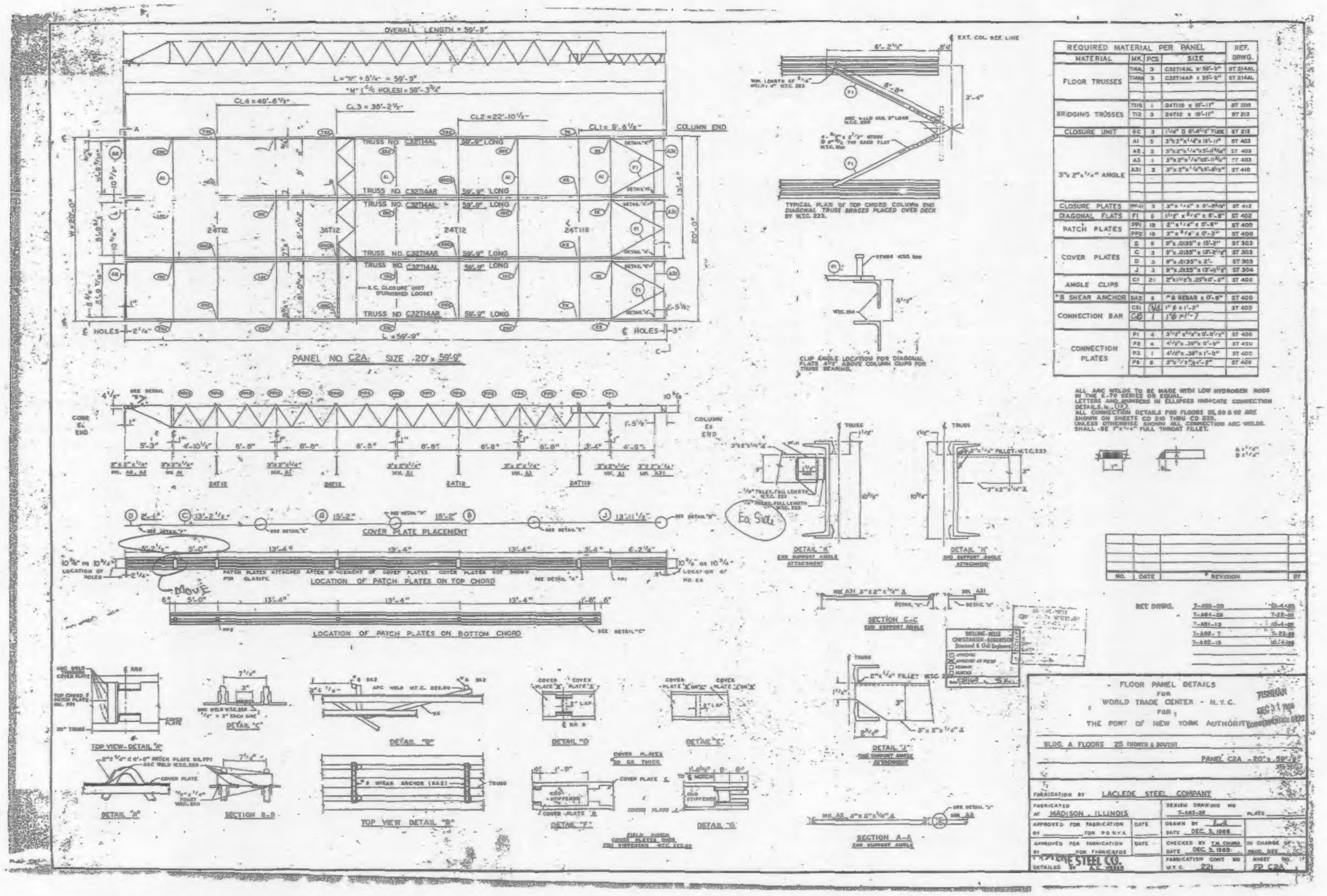
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-29
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY LwR
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP CR2B



OVERALL LENGTH = 59'-9"
COLUMN END
PANEL NO. CR2A SIZE 20' x 59'-9"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL
DETAIL "H"
DETAIL "K"
SECTION C-C
TOP VIEW DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J"
SECTION B-B
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL G
SECTION A-A
Move
to Side
NO. DATE REVISION BY
REF DRWG. 7-A83-29 10-4-68
7-A84-28 7-22-68
7-A81-13 10-4-68
7-A82-7 7-22-68
7-A82-18 10-4-68
SKILLING, HELLE CHRISTIANSEN, ROBERTSON Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL CR2A - 20' x 59'-9"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-29
APPROVED FOR FABRICATION BY FOR PONYA
DRAWN BY
DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
CHECKED BY T.H. CHUNA
DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP CR2A

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 58'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 218
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	6C	3	1¼" O 6'-6½" TUBE	ST 212
3" x 2" x ¼" ANGLE	A1	5	3" x 2" x ¼" x 19'-11"	ST 403
	A2	2	[illegible]	ST 403
	A3	1	[illegible]	ST 403
	A31	3	[illegible]	ST 410
CLOSURE PLATES	[illegible]	3	[illegible]	ST 412
DIAGONAL FLATS	F1	6	[illegible]	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0'-9"	ST 400
	PP2	18	3" x ¼" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2½"	ST 303
	D	3	9" x .0135" x 2'	ST 303
	J	3	[illegible]	ST 304
ANGLE CLIPS	C1	21	[illegible]	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
CONNECTION BAR	CB1	5/4	1" ∅ x 1'-3"	ST 400
	CØ	J	1"∅ x 1'-7	
CONNECTION PLATES	P1	4	[illegible]	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400
	P9	6	[illegible]	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (13).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x ¼" FULL THROAT FILLET.



OVERALL LENGTH = 59'-9"
PANEL NO. C2A: SIZE 20' x 59'-9"
TRUSS NO. C32T14AL 59'-9" LONG
TRUSS NO. C32T14AR 59'-9" LONG
COLUMN END
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223
CLIP ANGLE LOCATION FOR DIAGONAL PLATE 4'-0" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "K"
DETAIL "H"
SECTION C-C
DETAIL "J"
SECTION A-A
TOP VIEW - DETAIL "B"
DETAIL "C"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
Ea. Side
Move

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 218
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	SC	3	1¼" Ø 6'-8½" TUBE	ST 212
3"x 2"x ¼" ANGLE	A1	5	3"x2"x¼"x 19'-11"	ST 403
	A2	2	3"x2"x¼"x5'-11 5/16"	ST 403
	A3	1	3"x2"x¼"x5'-11 3/4"	ST 403
	A31	3	3"x2"x¼"x5'-8½"	ST 410
CLOSURE PLATES	PF-11	3	3"x ¼" x 0'-2 5/8"	ST 412
DIAGONAL FLATS	F1	6	1½" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x ¼" x 0'-8"	ST 400
	PP2	18	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2½"	ST 303
	D	3	9"x .0135" x 2'-	ST 303
	J	3	9"x .0135" x 13'-11½"	ST 304
ANGLE CLIPS	C1	21	2"x1½"x .25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-6"	ST 400
CONNECTION BAR	CB1	[illegible]	1" Ø x 1'-3"	ST 403
	CB	1	1" Ø x 1'-7	
CONNECTION PLATES	P1	4	3½" x 3/8" x 0'-8½"	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	1	4½" x .38" x 1'-0"	ST 400
	P4	6	3"x ½" x 1'-2"	ST 405

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (12)
ALL CONNECTION DETAILS FOR FLOORS 25, 50 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x ¼" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.
7-A83-28 10-4-68
7-A84-28 7-22-68
7-A81-13 10-4-68
7-A82-7 7-22-68
7-A82-13 10-4-68

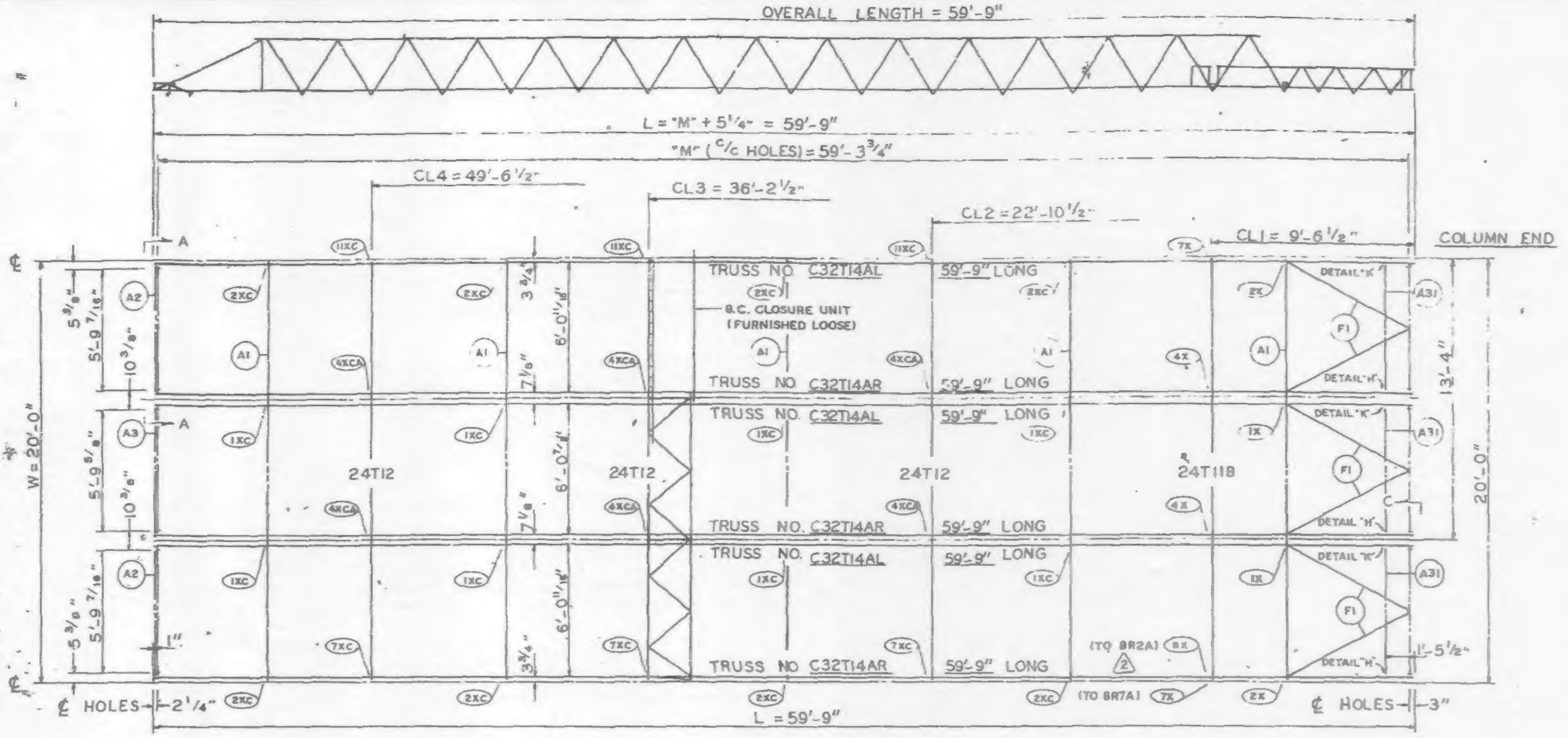
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH)

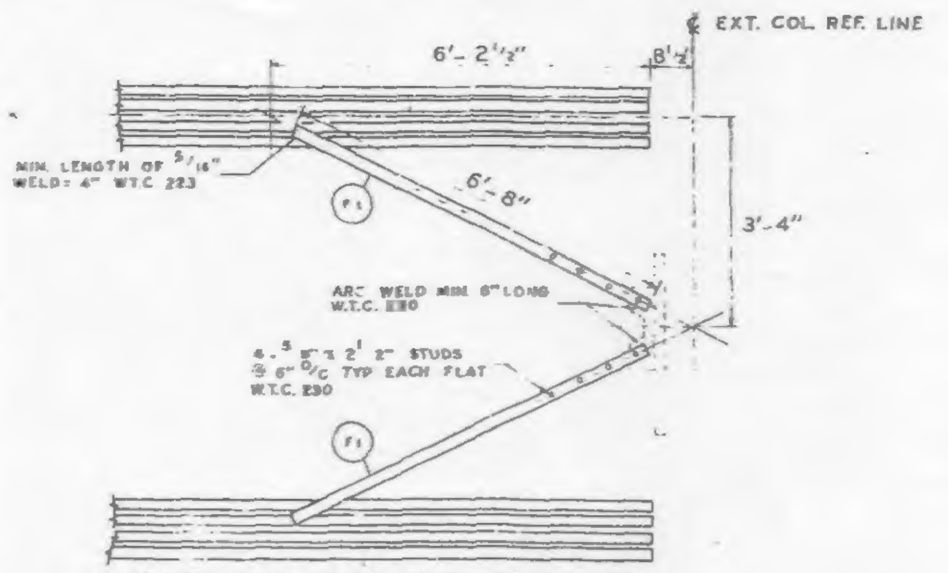
PANEL C2A - 20' x 59'-9"

TISHMAN
DEC 31 1968

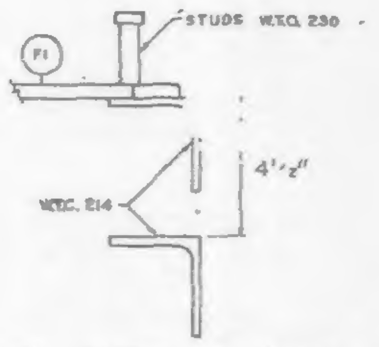
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-28
PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY E.A.
DATE DEC. 3, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.M. CHUNG
DATE DEC. 3, 1968
IN CHARGE OF
LACLEDE STEEL CO.
DETAILED BY A.C. MEYER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C2A


OVERALL LENGTH = 59'-9"
L = "M" + 5 1/4" = 59'-9"
"M" (C/C HOLES) = 59'-3 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T14AL
59'-9" LONG
TRUSS NO. C32T14AR
B.C. CLOSURE UNIT (FURNISHED LOOSE)
24T12
24T118
DETAIL "K"
DETAIL "H"
A1
A2
A3
A31
F1
1XC
2XC
4XCA
7XC
11XC
1X
2X
4X
7X
8X
(TO BR2A)
(TO BR7A)
W = 20'-0"
5 3/8"
5'-9 7/16"
10 3/8"
5'-9 5/8"
3 3/4"
7 1/8"
6'-0 11/16"
6'-0 7/8"
13'-4"
20'-0"
1'-5 1/2"
℄ HOLES
2 1/4"
3"
L = 59'-9"
A
C

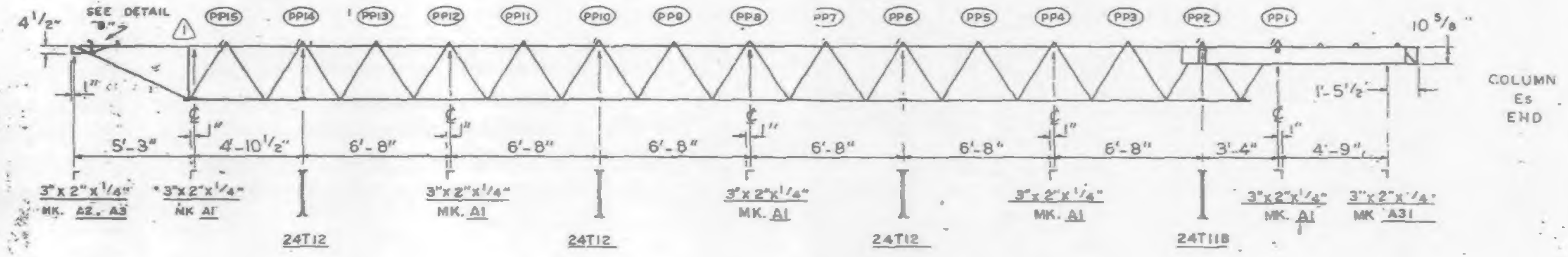
PANEL NO. CR2A SIZE 20' x 59'-9"

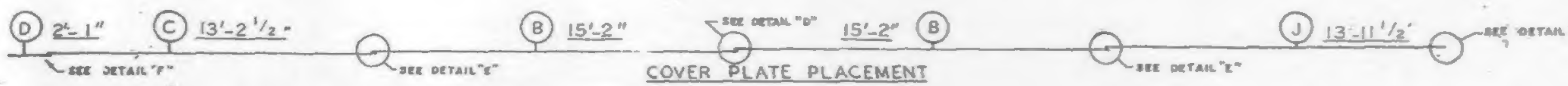

℄ EXT. COL. REF. LINE
6'-2 1/2"
8 1/2"
6'-8"
3'-4"
MIN. LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN. 8" LONG W.T.C. 230
4 - 5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
F1

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

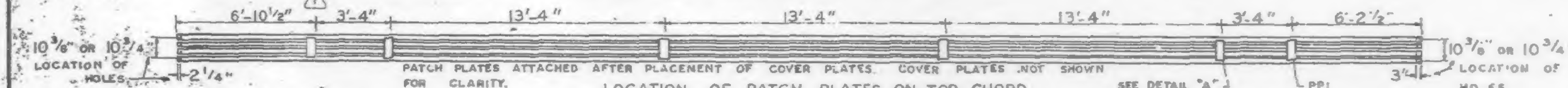

STUDS W.T.C. 230
F1
W.T.C. 214
4 1/2"

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.


4 1/2"
SEE DETAIL "B"
PP15
PP14
PP13
PP12
PP11
PP10
PP9
PP8
PP7
PP6
PP5
PP4
PP3
PP2
PP1
10 5/8"
CORE END
COLUMN END
1'-5 1/2"
5'-3"
4'-10 1/2"
6'-8"
3'-4"
4'-9"
3" x 2" x 1/4" MK. A2, A3
3" x 2" x 1/4" MK. A1
3" x 2" x 1/4" MK. A31
24T12
24T118

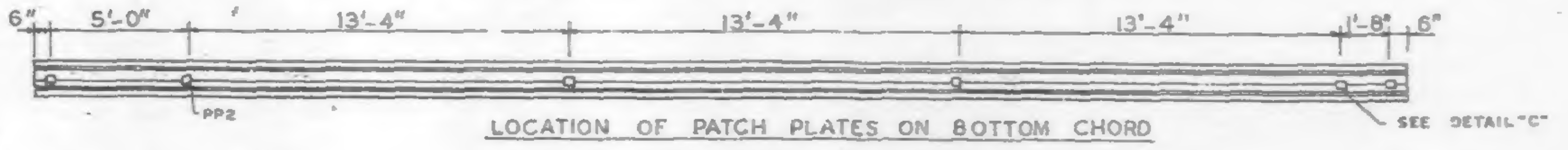

D 2'-1"
C 13'-2 1/2"
B 15'-2"
15'-2" B
J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"

COVER PLATE PLACEMENT

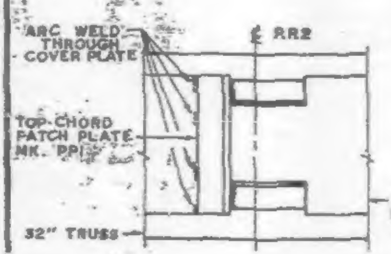

6'-10 1/2"
3'-4"
13'-4"
6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
2 1/4"
3"
SEE DETAIL "A"
PP1

PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.

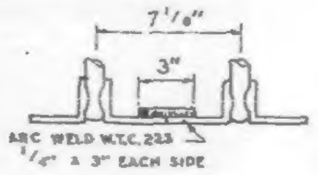
LOCATION OF PATCH PLATES ON TOP CHORD


6"
5'-0"
13'-4"
1'-8"
PP2
SEE DETAIL "C"

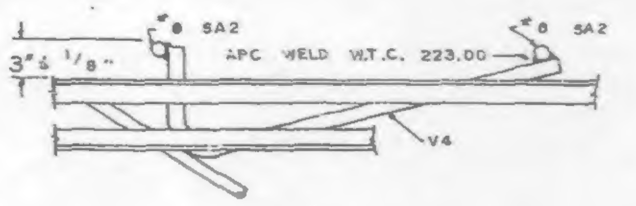
LOCATION OF PATCH PLATES ON BOTTOM CHORD


ARC WELD THROUGH COVER PLATE
℄ RR2
TOP-CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS

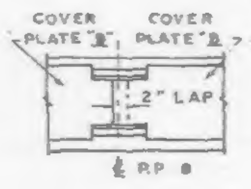
TOP VIEW - DETAIL "A"


7 1/8"
3"
ARC WELD W.T.C. 223
1/4" x 3" EACH SIDE

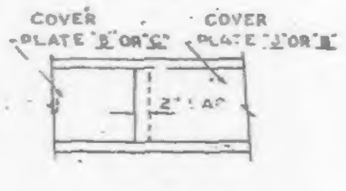
DETAIL "C"


#8 SA2
3" ± 1/8"
ARC WELD W.T.C. 223.00
V4

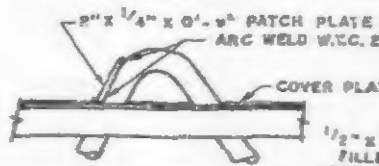
DETAIL "B"


COVER PLATE "B"
COVER PLATE "D"
2" LAP
℄ PP 8

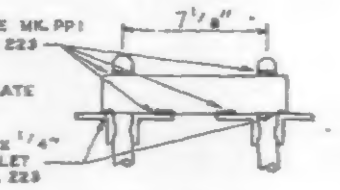
DETAIL "D"


COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
2" LAP

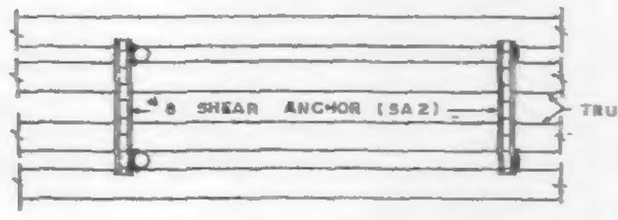
DETAIL "E"


2" x 1/4" x 0'-9" PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE

DETAIL "A"

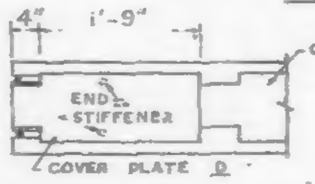

7 1/8"
1/2" x 1/4" FILLET W.T.C. 223

SECTION B-B

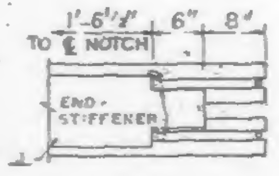

#8 SHEAR ANCHOR (SA2)
TRUSS

TOP VIEW DETAIL "B"

COVER PLATES #29 GA THICK

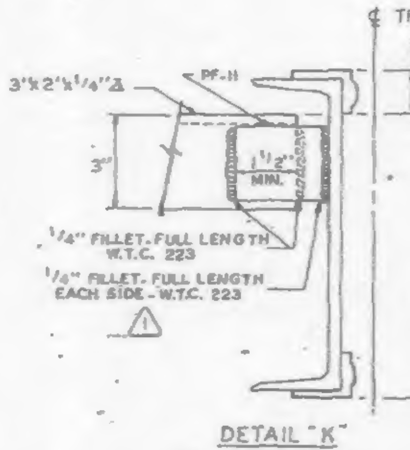

4"
1'-9"
END STIFFENER
COVER PLATE C
COVER PLATE D

DETAIL "F"

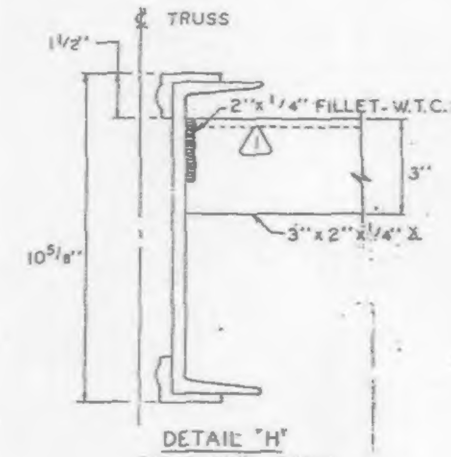

1'-6 1/2"
6"
8"
TO ℄ NOTCH
END STIFFENER
COVER PLATE J

DETAIL "G"

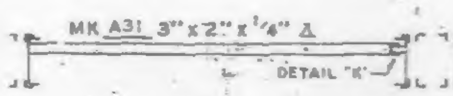
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.


℄ TRUSS
1 1/2"
3" x 2" x 1/4" ∠
PF-11
3"
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"

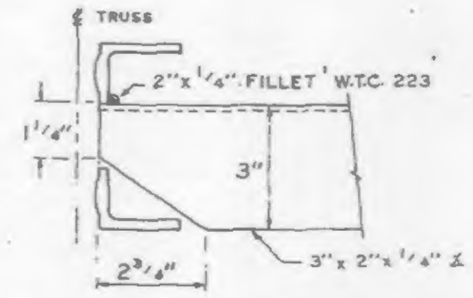
DETAIL "K"
END SUPPORT ANGLE ATTACHMENT


℄ TRUSS
1 1/2"
2" x 1/4" FILLET - W.T.C. 223
3"
3" x 2" x 1/4" ∠
10 5/8"

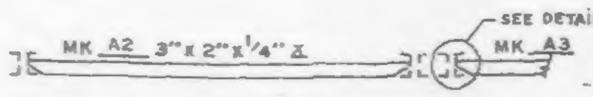
DETAIL "H"
END SUPPORT ANGLE ATTACHMENT


MK A31 3" x 2" x 1/4" ∠
DETAIL "K"
MK A31
DETAIL "H"

SECTION C-C
END SUPPORT ANGLE


℄ TRUSS
2" x 1/4" FILLET W.T.C. 223
1 1/4"
3"
2 3/4"
3" x 2" x 1/4" ∠

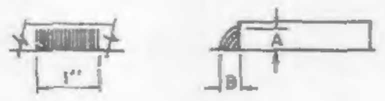
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT


MK A2 3" x 2" x 1/4" ∠
SEE DETAIL "J"
MK A3

SECTION A-A
END SUPPORT ANGLE

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

REF. DRWG.		
	7-AB3-29	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

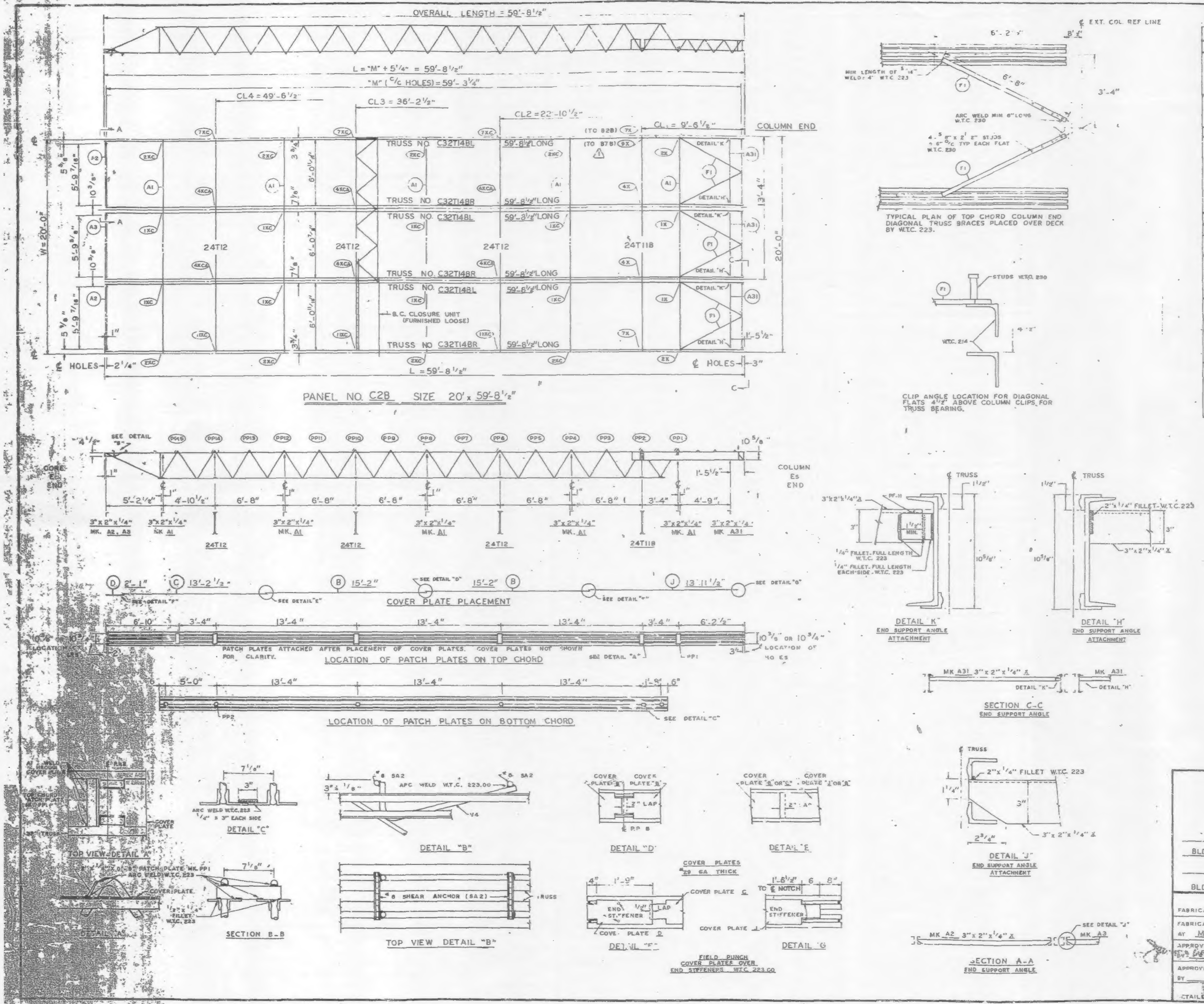
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL CR2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-29	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 6/6/69	DRAWN BY [illegible] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE DEC. 5, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY R.G. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP CR2A

LACLEDE STEEL CO.


OVERALL LENGTH = 59'-8 1/2"
L = "M" + 5 1/4" = 59'-8 1/2"
"M" (C/C HOLES) = 59'-3 1/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/8"
COLUMN END
(TO 828) 7X
(TO 878) 9X
TRUSS NO. C32T148L 59'-8 1/2" LONG
TRUSS NO. C32T148R 59'-8 1/2" LONG
TRUSS NO. C32T148L 59'-8 1/2" LONG
TRUSS NO. C32T148R 59'-8 1/2" LONG
TRUSS NO. C32T148L 59'-8 1/2" LONG
TRUSS NO. C32T148R 59'-8 1/2" LONG
24T12
24T12
24T12
24T118
B.C. CLOSURE UNIT (FURNISHED LOOSE)
DETAIL "K"
DETAIL "H"
A1 A2 A3 A31 F1
1XC 2XC 4XC 4XCA 7XC 1X 2X 4X 7X
W = 20'-0"
5'-9 7/16"
5'-9 5/8"
10 3/8"
13'-4"
20'-0"
1'-5 1/2"
℄ HOLES 2 1/4"
℄ HOLES 3"
L = 59'-8 1/2"
PANEL NO. C2B SIZE 20' x 59'-8 1/2"
SEE DETAIL "B"
PP15 PP14 PP13 PP12 PP11 PP10 PP9 PP8 PP7 PP6 PP5 PP4 PP3 PP2 PP1
CORE Es END
COLUMN Es END
10 5/8"
5'-2 1/2" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 6'-8" 3'-4" 4'-9"
3"x2"x1/4" MK. A2, A3
3"x2"x1/4" MK. A1
3"x2"x1/4" MK. A31
24T12
24T118
D 2'-1" C 13'-2 1/2" B 15'-2" 15'-2" B J 13'-11 1/2"
SEE DETAIL "F"
SEE DETAIL "E"
SEE DETAIL "D"
SEE DETAIL "G"
COVER PLATE PLACEMENT
6'-10" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
10 3/8" OR 10 3/4" LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
PP1
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0" 13'-4" 13'-4" 13'-4" 1'-8" 6"
PP2
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
℄ EXT. COL. REF LINE
6'-2 1/2"
6'-8"
3'-4"
MIN LENGTH OF 5/16" WELD = 4" W.T.C. 223
ARC WELD MIN 6" LONG W.T.C. 230
4-5/8" x 2 1/2" STUDS @ 6" O/C TYP EACH FLAT W.T.C. 230
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
STUDS W.T.C. 230
W.T.C. 214
4 1/2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
℄ TRUSS
3"x2"x1/4" ∠
PF-11
1 1/2" MIN.
1/4" FILLET - FULL LENGTH W.T.C. 223
1/4" FILLET - FULL LENGTH EACH SIDE - W.T.C. 223
10 5/8"
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
2"x1/4" FILLET - W.T.C. 223
3"x2"x1/4" ∠
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
MK A31 3"x2"x1/4" ∠
SECTION C-C END SUPPORT ANGLE
2"x1/4" FILLET W.T.C. 223
1 1/4"
2 3/4"
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
MK A2 3"x2"x1/4" ∠
MK A3
SEE DETAIL "J"
SECTION A-A END SUPPORT ANGLE
TOP VIEW DETAIL "A"
DETAIL "A"
PATCH PLATE MK. PP1
ARC WELD W.T.C. 223
COVER PLATE
1/2" x 1/4" FILLET W.T.C. 223
7 1/8"
3"
ARC WELD W.T.C. 223 1/4" x 3" EACH SIDE
DETAIL "C"
SECTION B-B
#8 SA2
ARC WELD W.T.C. 223.00
DETAIL "B"
#8 SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW DETAIL "B"
COVER PLATE "B"
2" LAP
℄ P.P. 8
DETAIL "D"
COVER PLATE "B" OR "C"
COVER PLATE "J" OR "B"
DETAIL "E"
COVER PLATES #29 GA THICK
END STIFFENER
COVER PLATE C
COVER PLATE D
LAP
DETAIL "F"
TO ℄ NOTCH
COVER PLATE
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T148L	3	C32T148L x 59'-8 1/2"	ST 2148L
	T148R	3	C32T148R x 59'-8 1/2"	ST 2148L
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ⌀ 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4" x 0-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135"x 15'-2"	ST 303
	C	3	9"x .0135"x 13'-2 1/2"	ST 303
	D	3	9"x .0135"x 2'-1"	ST 303
	J	3	9"x .0135"x 12'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	1	4 1/2"x .39"x 1'-0"	ST 400
	P9	8	3"x 1/2"x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
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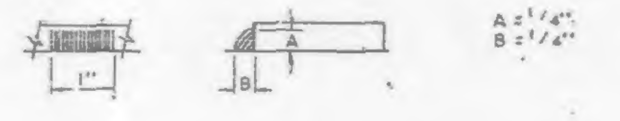
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.



A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.(.

REF. DRWG.

7-AB3-28	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL C2B - 20' x 59'-8 1/2"
BLDG. B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28
PLATE
APPROVED FOR FABRICATION BY FOR PONYA
DATE 6/6/69
DRAWN BY
DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP C2B